Bill Acceptor

XBA

Installation Guide & Service Manual

International Currency Technologies

Use of Materials Limitations

International Currency Technologies Corporation (ICT) all rights reserved.
All materials contained are the copyrighted property of ICT.
All trademarks, service marks, and trade names are proprietary to ICT.

ICT reserves the right at all times to disclose or to modify any information as ICT deems necessary to satisfy any applicable law, regulation, legal process or governmental request, or to edit, refuse to post or to remove any information or materials, in whole or in part, in ICT's sole discretion.

Contents

1. General Information

1-1. Specifications..... 3

1-2. Dimensions.....4

1-3. Harness Application.....6

1-4. Bezel Styles.....13

2. Software download and test

2-1. Download Firmware.....15

2-2. Auto Testing Tool.....19

2-3. Component Names.....32

2-4. Assembling Procedure.....33

3. Operation

3-1. Operation Flowchart.....40

3-2. I/O Circuit.....41

4. Maintenance.....45

5. Troubleshooting

5-1. Introduction.....46

5-2. Failed to Power Up.....47

5-3. Failed to Communicate.....48

5-4. Low Acceptance..... 49

5-5. Wrong Credit Output.....50

5-6. Motor with Strange Sound.....51

5-7. No Diagnostic LED Status.....52

5-8. Bill Acceptor Error Code.....53

6. Parts and Assembly Views

6-1. Exploded Views.....63

6-2. Circuit Board Overviews.....70

7. Model Number Configuration.....71

1. General Information

1-1. Specifications

General

Acceptance Rate	98% or greater

**Note: The acceptance rate excludes notes that are dirty, wet, broken or wrinkled.*

Bill Insertion	Four way acceptable
Transaction Speed	Approx. 2.5 s to stack
Interface	Pulse, MDB(EU), MDB(US), ICT002U, ICT004U, ICT104V, ICT106U, GPT , CCNet, JPSTD, ccTalk, RS232 A0
Installation	Indoor & Outdoor

Electrical

Power Source	12V DC±10% 24V DC±10% 34V DC±10% 24V AC/ 34V AC±10%
Power Consumption	Normal Mode- Standby: 0.15A, 1.8W Operation: 1.0A, 12W Maximum: 2A, 24W Power Saving Mode- Mode 1: 50μA Mode 2: 15μA
Operation Environment	Operation Temperature: -20°C~65°C Storage Temperature : -30°C~70°C Humidity: 30%~95%RH (no condensation)

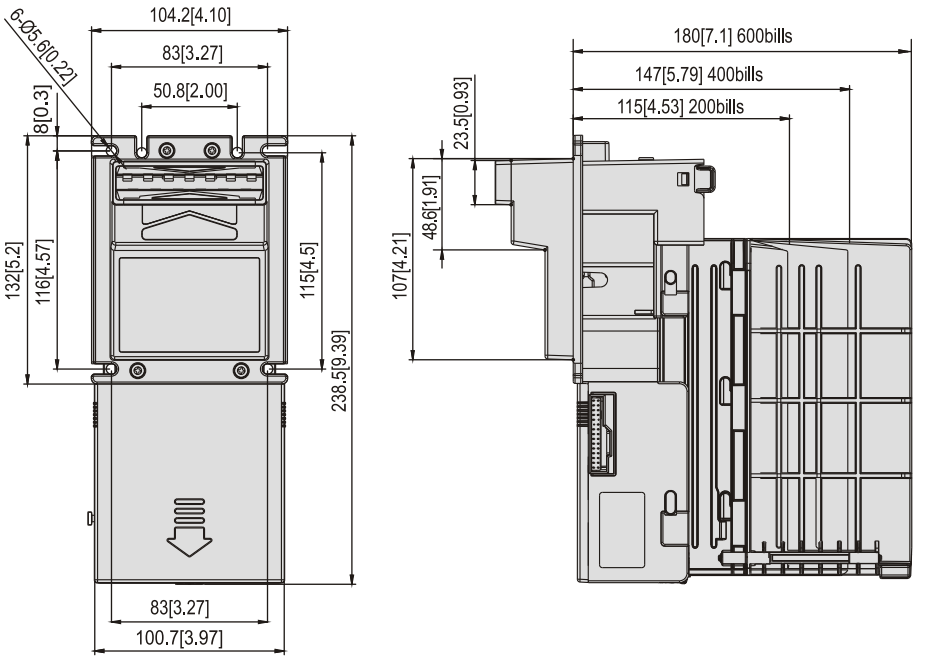
Mechanical

Bill Box Capacity	Approx. 200 bills 400 bills 600 bills
Weight	Approx. 1.5kg
Outline Dimension	Refer to page 4
Bill Accepted Width	62~77mm

1-2. Dimensions

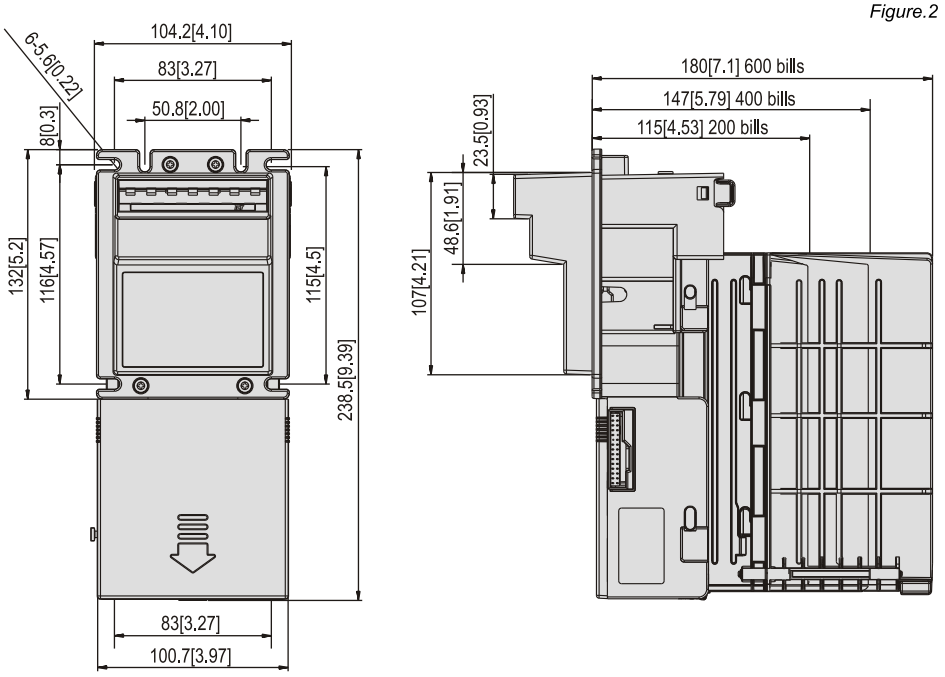
♦ Two Sided Bezel

Figure.1



♦ Two Sided Bezel（Metal）

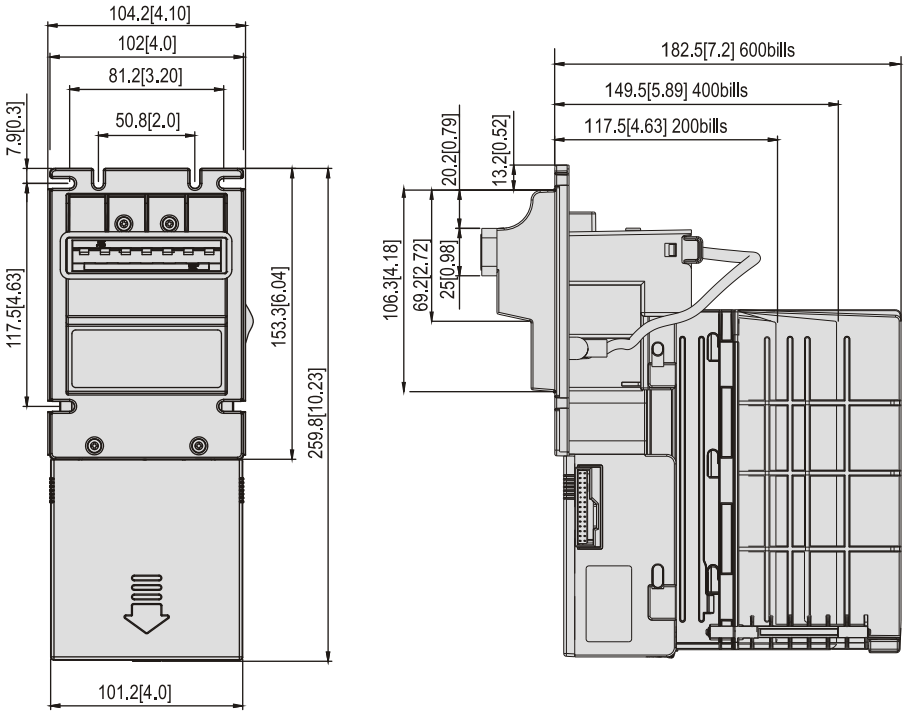
Figure.2



Unit : mm [inch]

♦ TOB Bezel

Figure.3



Unit : mm [inch]

1-3. Harness Application

Table.1

Interface	Used Voltage	Mode	Usage	Harness	Page
MDB*	12V DC	Sleep	Power & Data comm.	WEL-RV705	7
	12/24V DC			WEL-RS7P02	7
	34V DC	Normal		WEL-RM006	8
Pulse***	12V DC	Normal	Power & Data comm.	WEL-RV701	8
			Extension Wire	CU-R961	9
	24V AC	Normal	Power & Data Comm.	WEL-RV703	9
			Extension Wire	WEL-RV702	10
ICT Protocol***	12V DC	Normal	Power & Data Comm.	WEL-RXBA18	10
CCNet			Extension Wire	CU-R961	8
RS232 A0					
GPT Parallel*	24V AC	Normal	Power & Data Comm.	5RBG-AA203L1-03-1	11
JPSTD**	12/24V DC	Normal	Power & Data Comm.	WEL-RXBA20	11
ccTalk**	12/24V DC	Normal	Power & Data Comm.	WEL-RXBA21	12

***CPU Board use 399Axx**

****CPU Board use 399Mxx**

*****CPU Board use both 399Axx and 399Mxx**

Figure.4

Interface	Used Voltage	Mode	Usage
MDB	12V DC	Sleep	Power & *Data Comm.

WEL-RV705

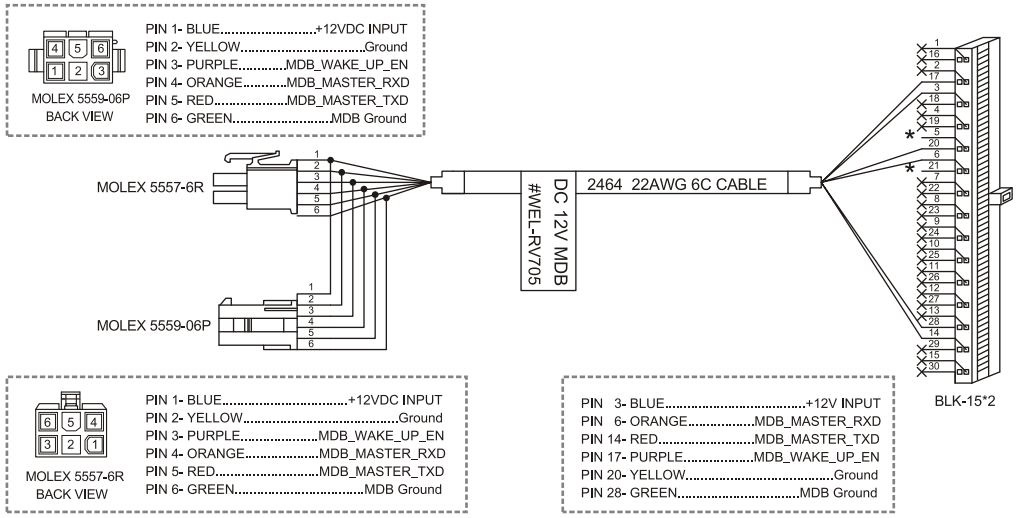


Figure.5

Interface	Used Voltage	Mode	Usage
MDB	12/ 24V DC	Sleep	Power & *Data Comm.

WEL-RS7P02

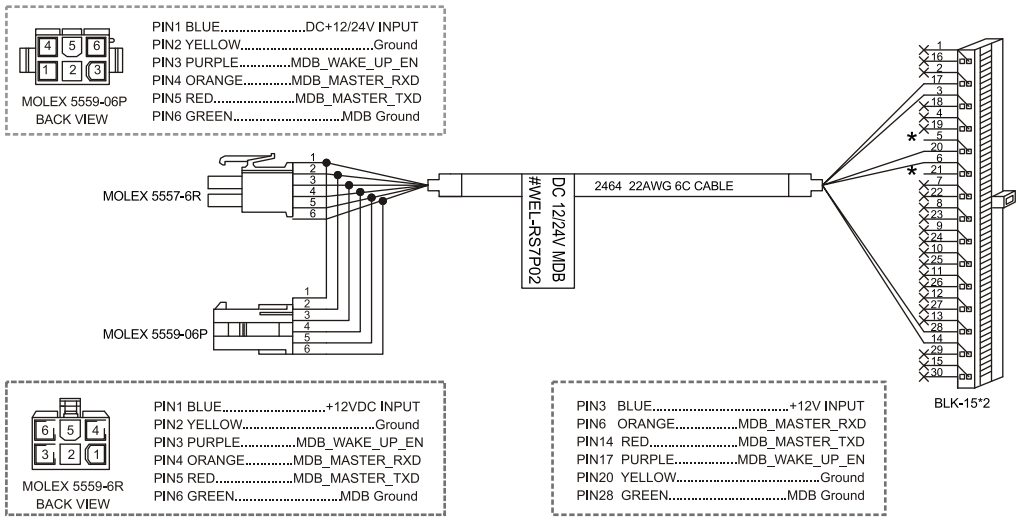


Figure.6

Interface	Used Voltage	Mode	Usage
MDB	34V DC	Normal	Power & *Data Comm.

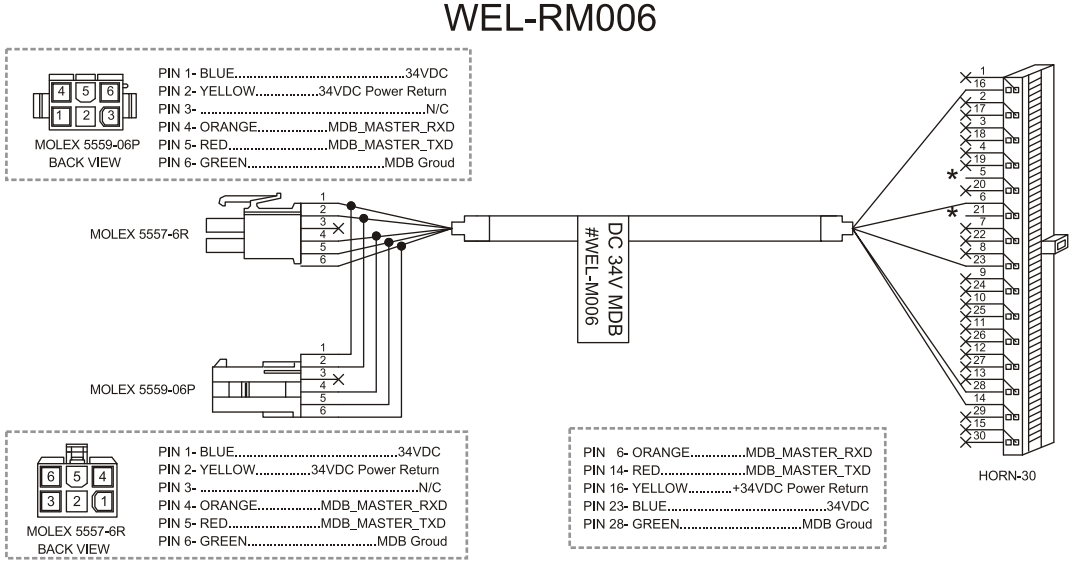


Figure.7

Interface	Used Voltage	Mode	Usage
Pulse	12V DC	Normal	Power & *Data Comm.

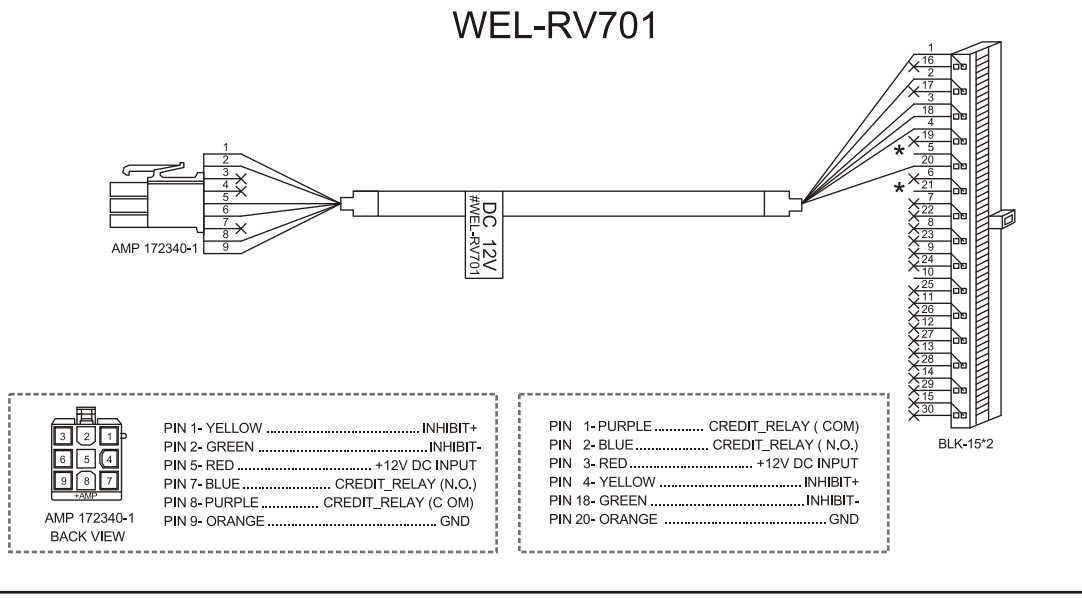
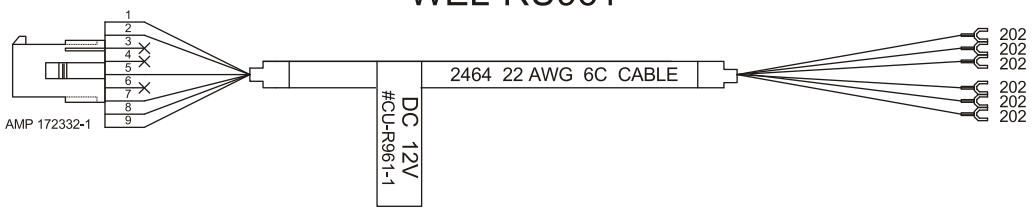

WEL-RV701
AMP 172340-1
DC 12V
#WEL-RV701
BLK-15*2
AMP 172340-1
BACK VIEW
PIN 1- YELLOW ..... INHIBIT+
PIN 2- GREEN ..... INHIBIT-
PIN 5- RED ..... +12V DC INPUT
PIN 7- BLUE ..... CREDIT_RELAY (N.O.)
PIN 8- PURPLE ..... CREDIT_RELAY (C OM)
PIN 9- ORANGE ..... GND
PIN 1- PURPLE ..... CREDIT_RELAY (COM)
PIN 2- BLUE ..... CREDIT_RELAY (N.O.)
PIN 3- RED ..... +12V DC INPUT
PIN 4- YELLOW ..... INHIBIT+
PIN 18- GREEN ..... INHIBIT-
PIN 20- ORANGE ..... GND

Figure.8

Interface	Used Voltage	Mode	Usage
Pulse	12V DC	Normal	Extension Wire for WEL-RV701
ICT Protocol	12V DC	Normal	Extension Wire for WEL-RXBA18
CCNet			
RS232 A0			

WEL-RU961



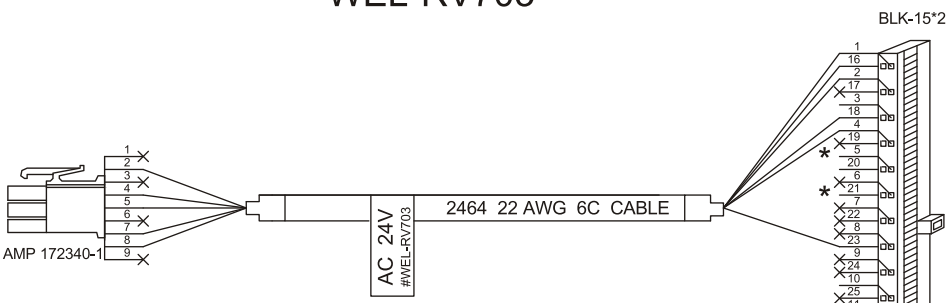
AMP 172340-1 BACK VIEW

PIN 1- YELLOW.....INHIBIT+
PIN 2- GREEN.....INHIBIT-
PIN 5- RED.....+12VDC INPUT
PIN 7- BLUE.....CREDIT-RELAY(N.O.)
PIN 8- PURPLE.....CREDIT-RELAY(COM)
PIN 9- ORANGE.....GND

Figure.9

Interface	Used Voltage	Mode	Usage
Pulse	24V AC	Normal	Power & *Data Comm.

WEL-RV703



AMP 172340-1
BACK VIEW

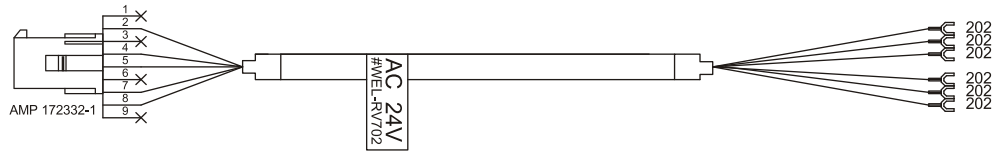
PIN 2- YELLOW.....INHIBIT+
PIN 4- BLUE.....CREDIT_RELAY (N.O.)
PIN 5- PURPLE.....CREDIT_RELAY (COM)
PIN 5- GREEN.....INHIBIT-
PIN 7- ORANGE.....+24V AC (RET)
PIN 8- RED.....+24V AC

PIN 1- PURPLE.....CREDIT_RELAY (COM)
PIN 2- BLUE.....CREDIT_RELAY (N.O.)
PIN 4- YELLOW.....INHIBIT-
PIN 16- ORANGE.....+24V AC (RET)
PIN 18- GREEN.....INHIBIT-
PIN 23- RED.....+24V AC

Figure.10

Interface	Used Voltage	Mode	Usage
Pulse	24V AC	Normal	Extension Wire

WEL-RV702



PIN 2- YELLOW.....INHIBIT+
PIN 4- BLUE.....CREDIT_RELAY (N.O.)
PIN 5- PURPLE.....CREDIT_RELAY (COM)
PIN 5- GREEN.....INHIBIT-
PIN 7- ORANGE.....+24V AC (RET)
PIN 8- RED.....+24V AC

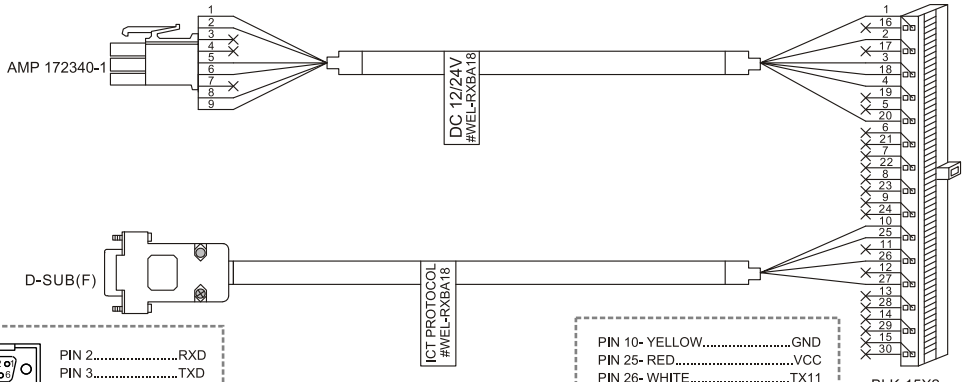
Figure.11

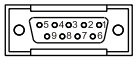
Interface	Used Voltage	Mode	Usage
ICT Protocol	12V DC	Normal	Power & *Data Comm.
CCNet			
RS232 A0			

WEL-RXBA18

PIN 1- YELLOW.....INHIBIT+
PIN 2- GREEN.....INHIBIT-
PIN 5- RED.....+12V DC INPUT
PIN 7- BLUE.....CREDIT RELAY(N.O.)
PIN 8- PURPLE.....CREDIT RELAY(COM)
PIN 9- ORANGE.....GND

PIN 1- PURPLE .....CREDIT RELAY(COM)
PIN 2- BLUE.....CREDIT RELAY(N.O.)
PIN 3- RED.....+12V DC INPUT
PIN 4- YELLOW.....INHIBIT+
PIN 18- GREEN.....INHIBIT-
PIN 20- ORANGE.....GND





PIN 2.....RXD
PIN 3.....TXD
PIN 5.....GND

PIN 10- YELLOW.....GND
PIN 25- RED.....VCC
PIN 26- WHITE.....TX11
PIN 27- BLACK.....RX11

Figure.12

Interface	Used Voltage	Mode	Usage
GPT Parallel	24V AC	Normal	Power & *Data Comm.

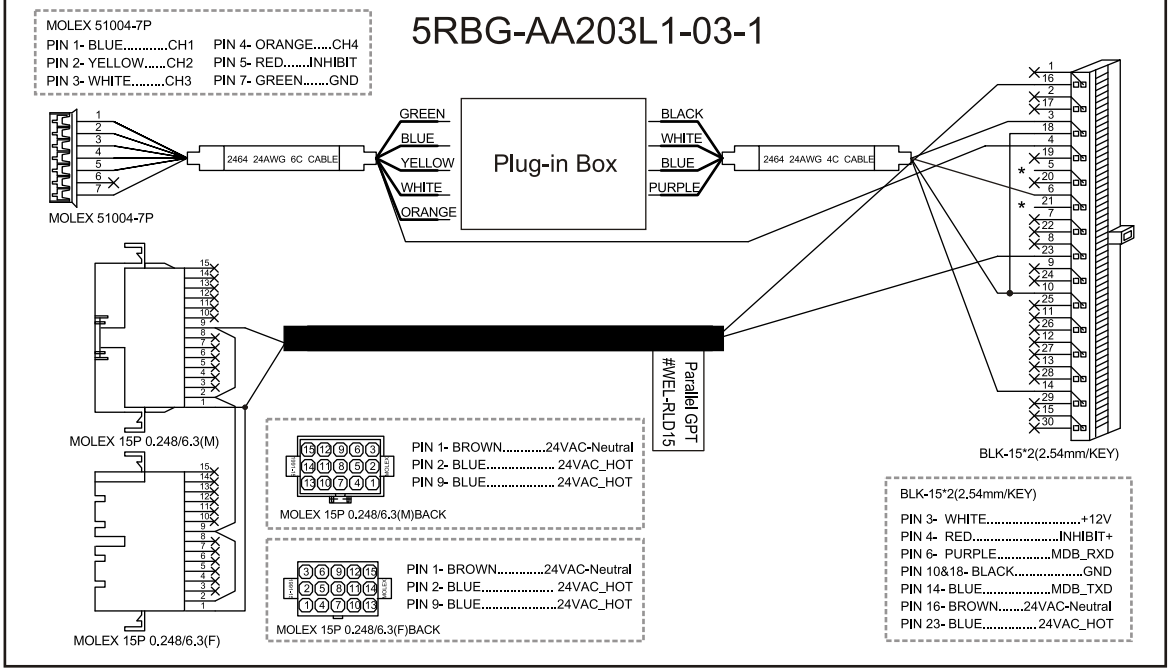


Figure.13

Interface	Used Voltage	Mode	Usage
JPSTD	12/24V DC	Normal	Power & *Data Comm.

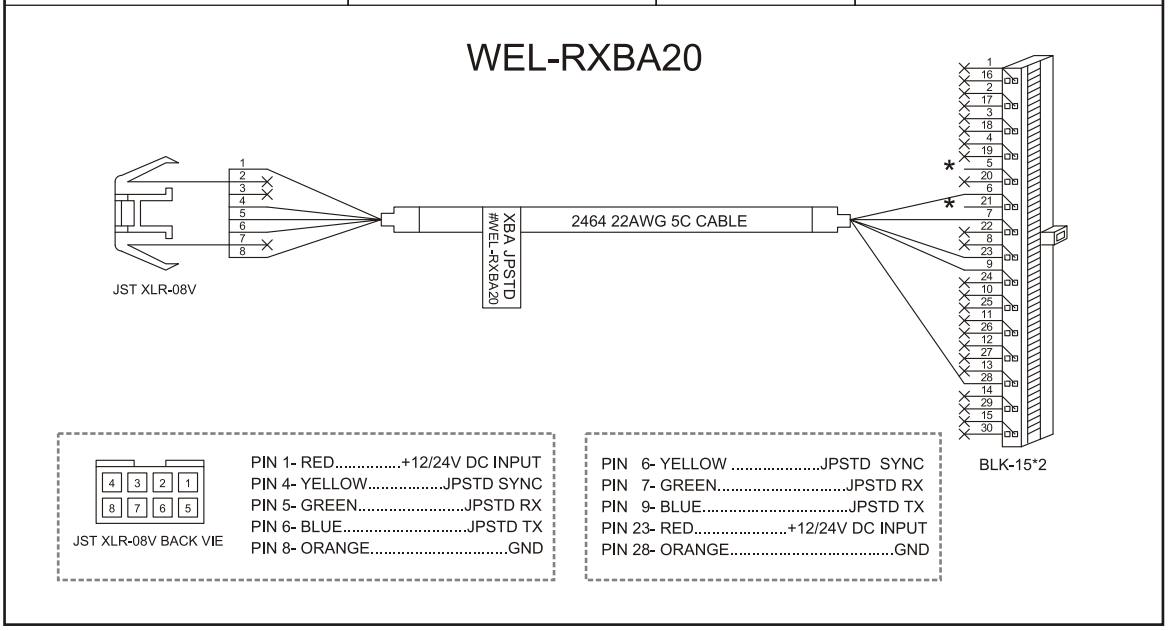
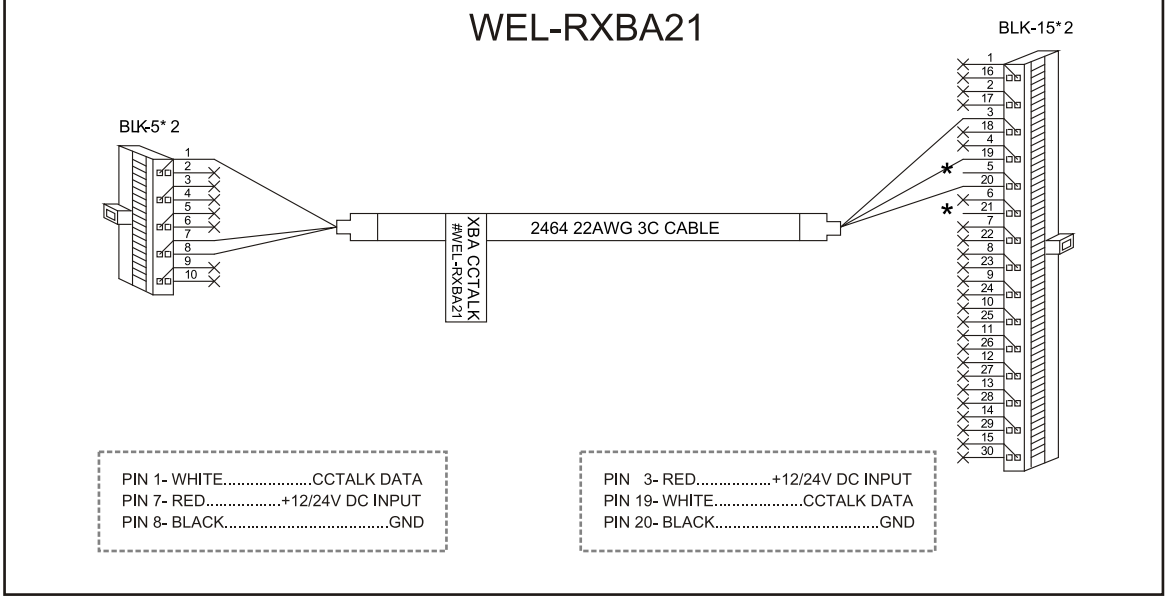


Figure.14

Interface	Used Voltage	Mode	Usage
ccTalk	12/24V DC	Normal	Power & *Data Comm.



1-4. Bezel Styles

♦ Standard-Bezel

Part Number: A421900-R

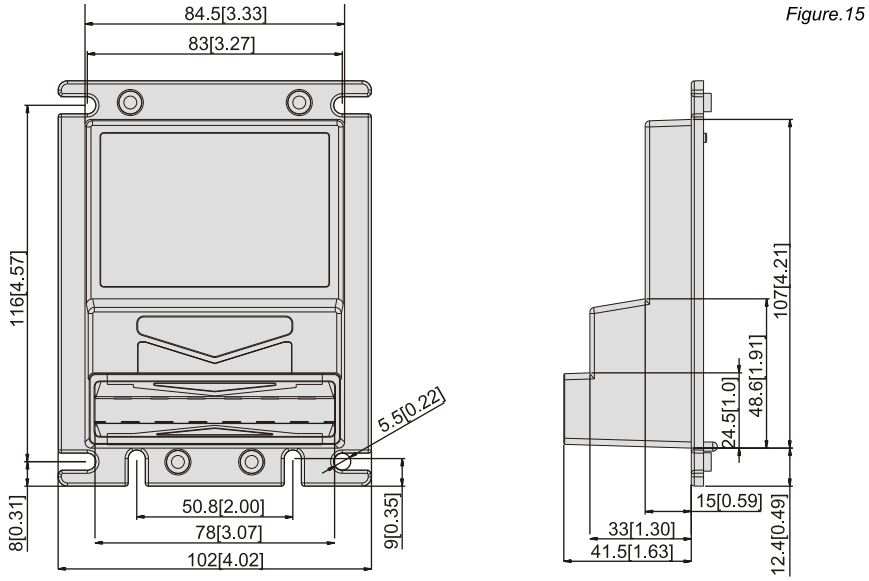


Figure.15

♦ Two Side Bezel (Metal)

Part Number: 3RMB-FAC45000

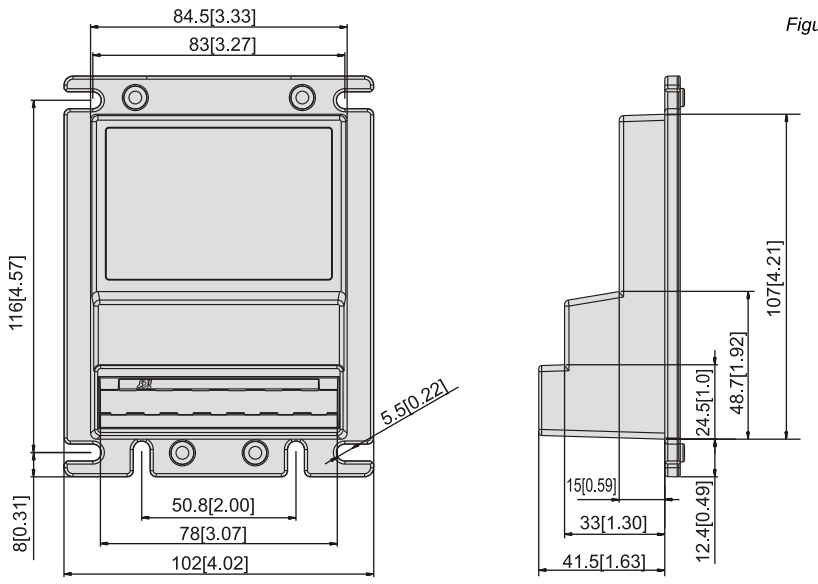


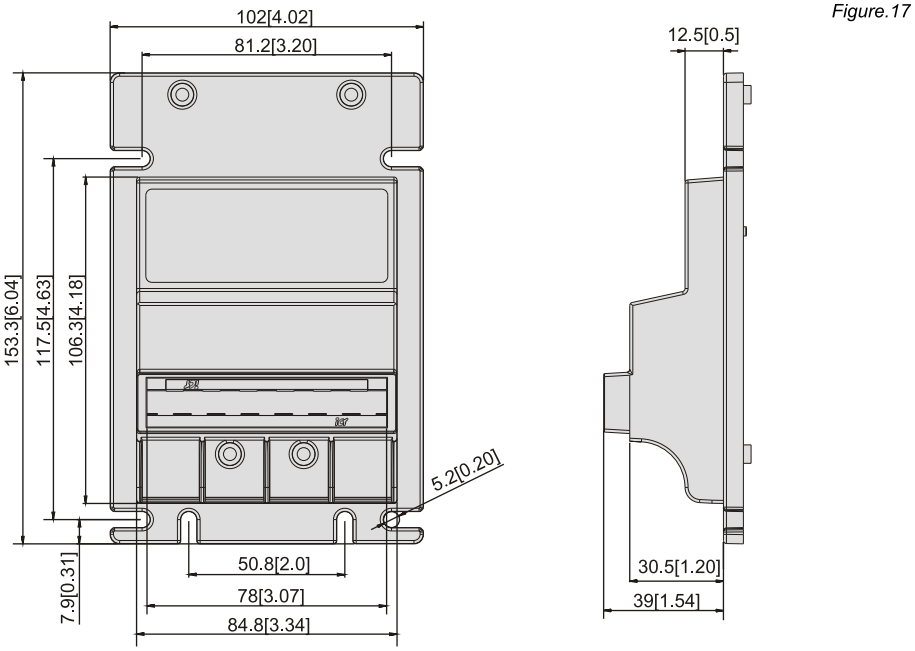
Figure.16

Unit : mm [inch]

♦ T-Bezel

Part Number: A422000-R

Figure.17



Unit : mm [inch]

2. Software download and test

2-1. Download Firmware

2-1-1. PC ➡ BA

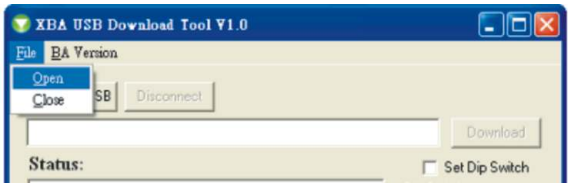


Figure.18

Step 1:

Select Firmware File: File -> Open

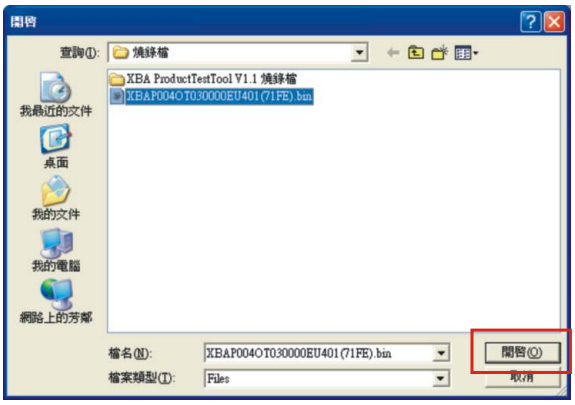


Figure.19

Step 2:

Select Firmware File & Press Open.

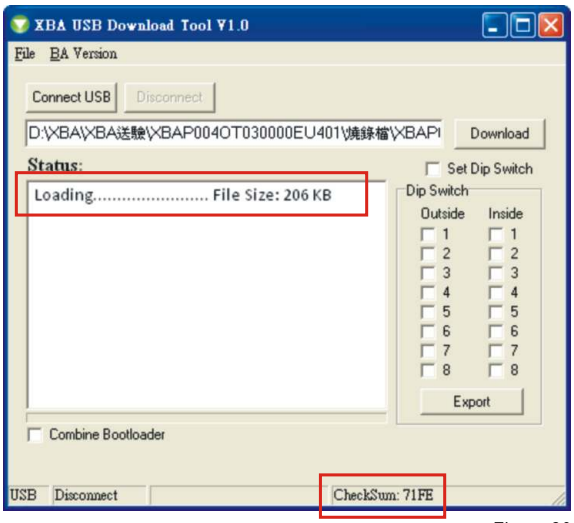


Figure.20

Step 3:

After opening , screen will display the file size and Checksum.

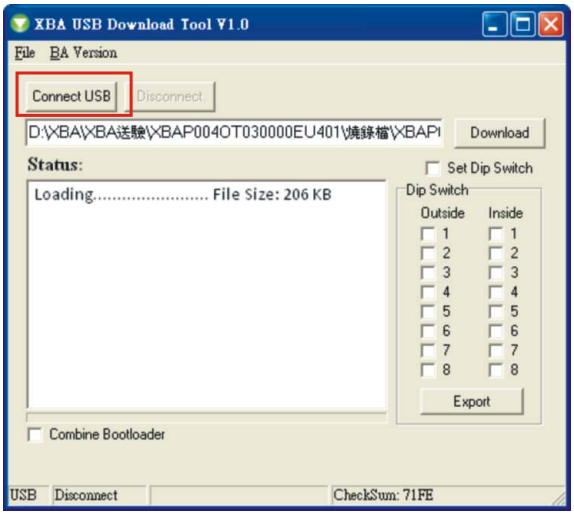


Figure.21

Step 4:
Connection XBA & PC, turn on the XBA ,Press “Connect USB”.

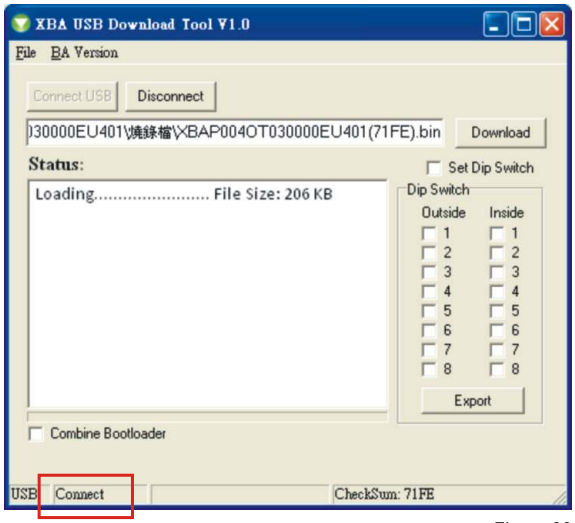


Figure.22

Step 5:
Display Connect.

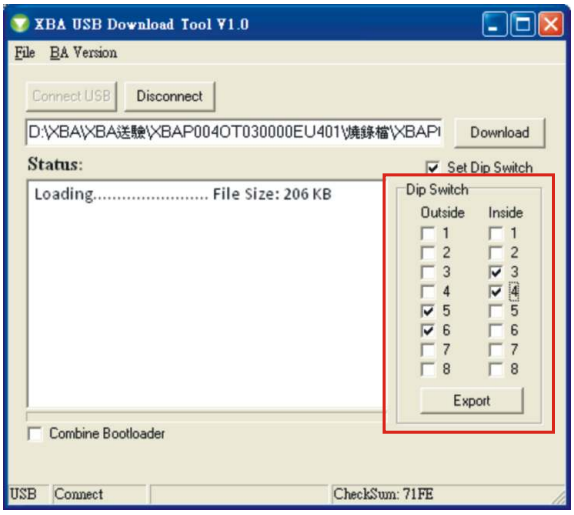


Figure.23

Step 6:

To set the DIP. Please select Set Dip Switch. And selecting DIP, Outside is a side DIP, Inside is an internal DIP.

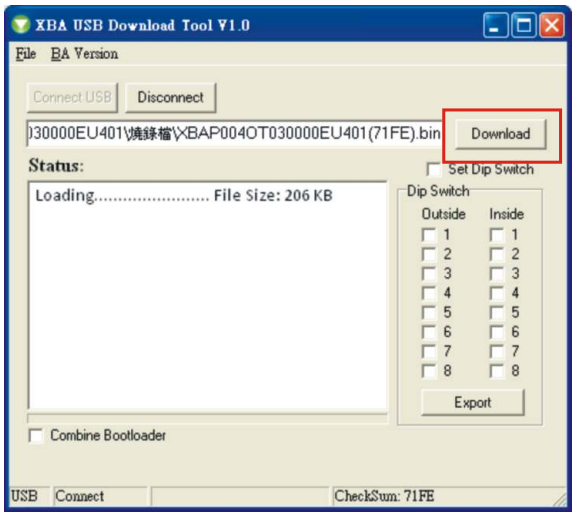


Figure.24

Press Download.

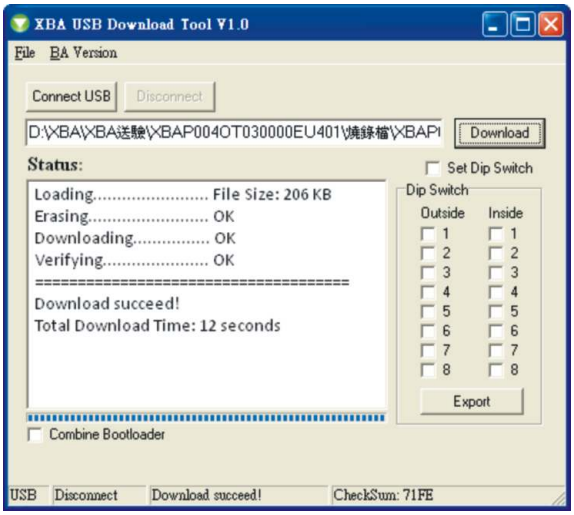


Figure.25

Step 7:
Download Success.

Step 8:
After rebooting BA.

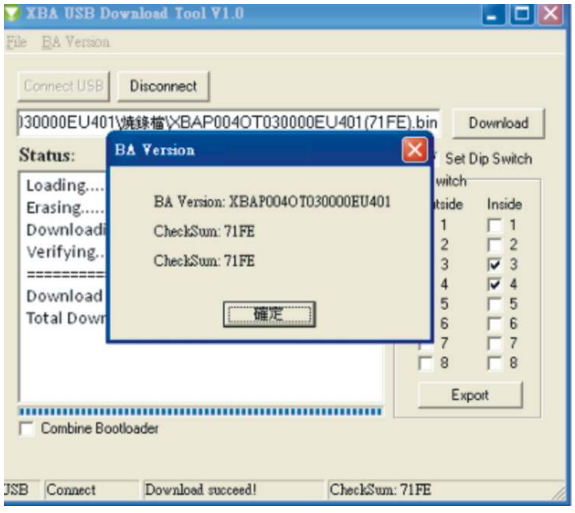


Figure.26

Step 9:
BA Version->Read Version. Check BA Version & Checksum.

2-2. Auto Testing Tool

2-1-1. Connection

Preparation before start
A. XBA Auto test tool
B. Connection cables(#WEL-RXBA06/#WEL-RHP57)
C. Power source
D. PC (OS Windows XP、Win7)
E. XBA calibration card

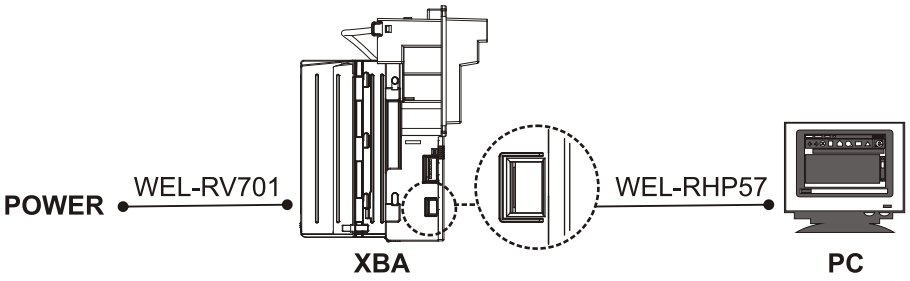


Figure.27

Step 1:
Start the tool and make sure the version is the latest one.

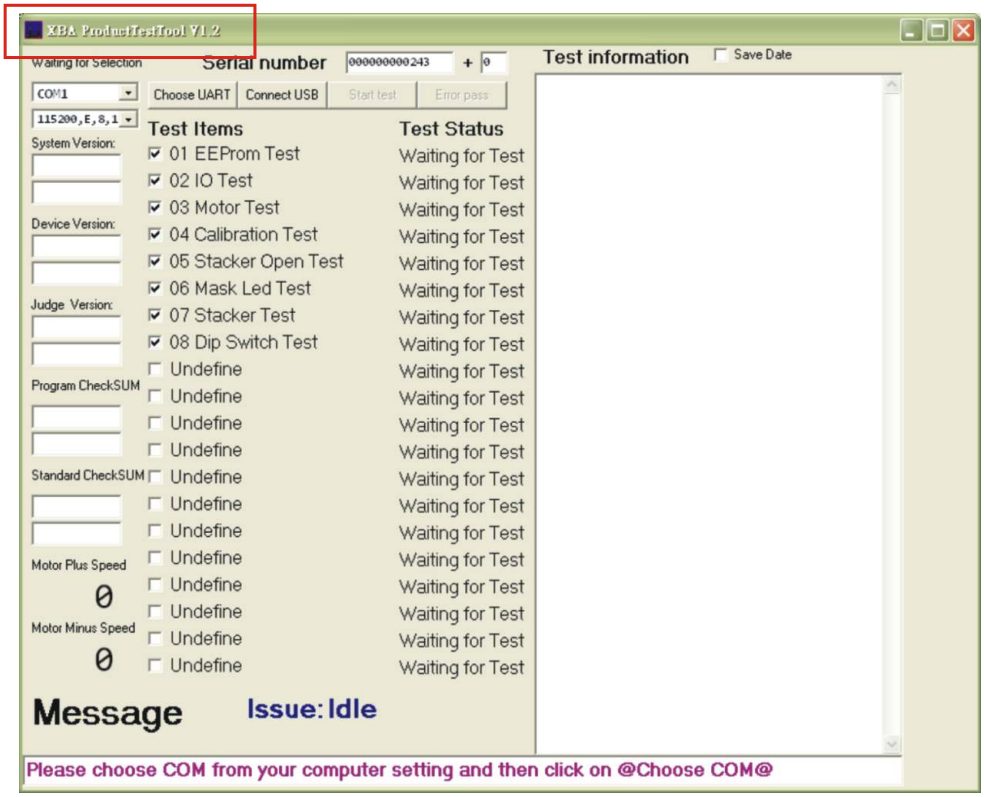


Figure.28

Step 2:
Enter the version and CheckSUM of this auto test tool.

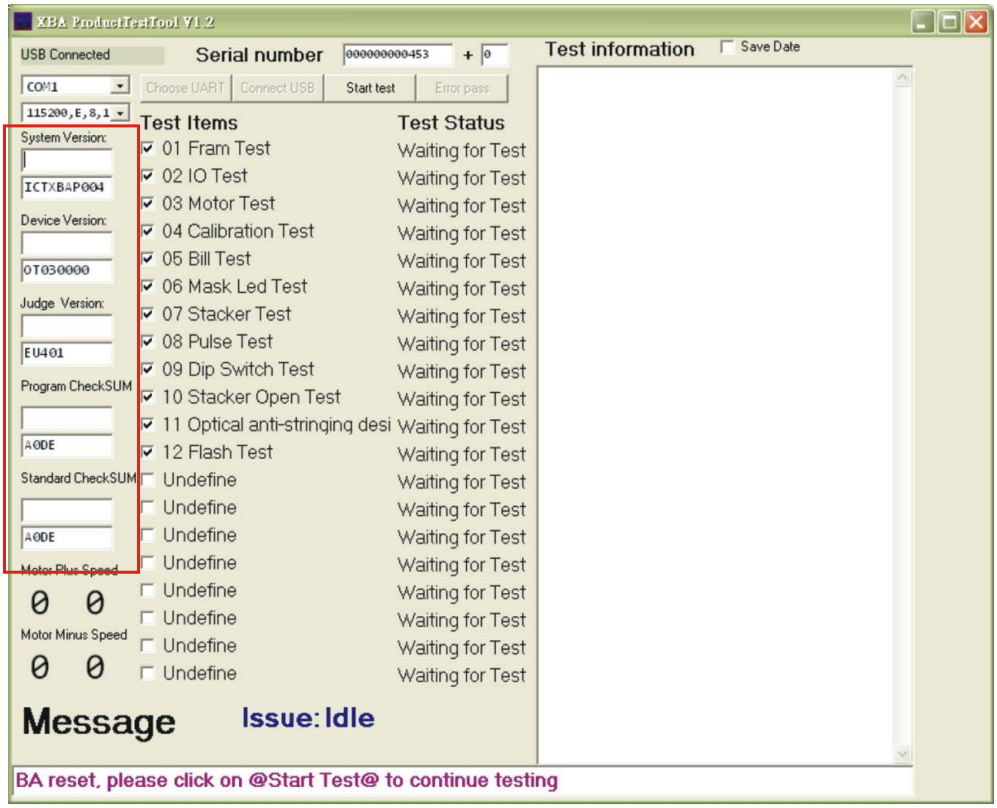


Figure.29

Step 3:

Press Connect USB. Message at upper left corner becomes “USB Connected”. It means the connection is successful. Turn off and turn on the BA and then the tool reads BA program version, shows the test items it will perform.

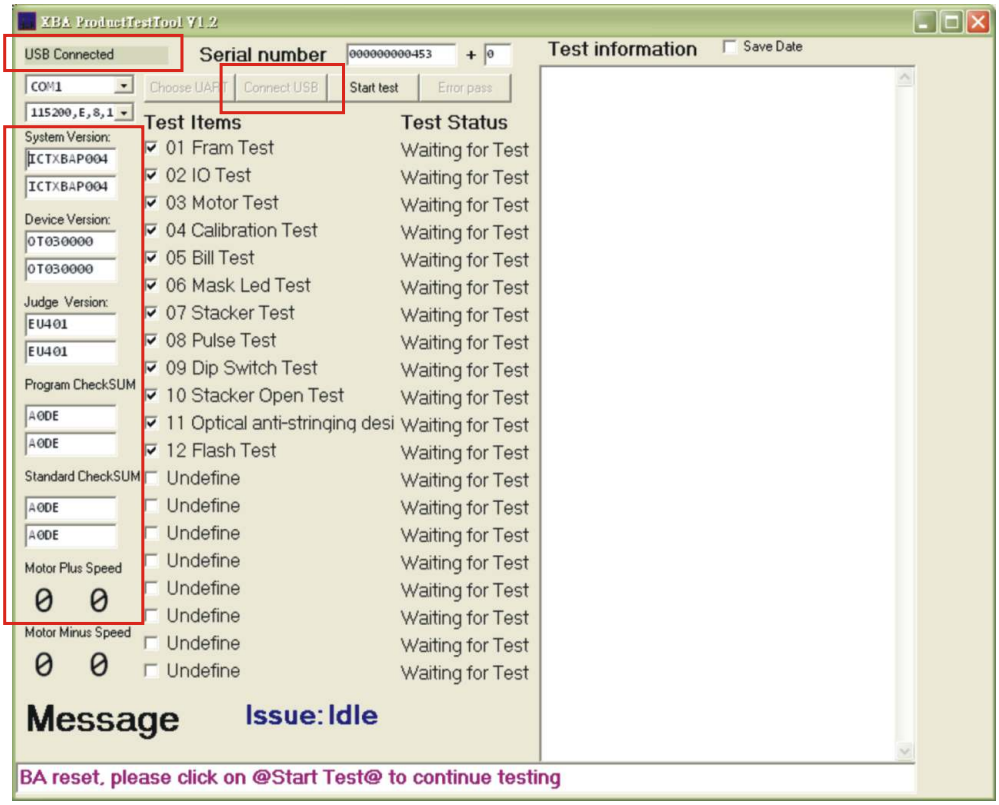


Figure.30

Step 4:

Press the 【Start test】 button, the tool starts testing in order.

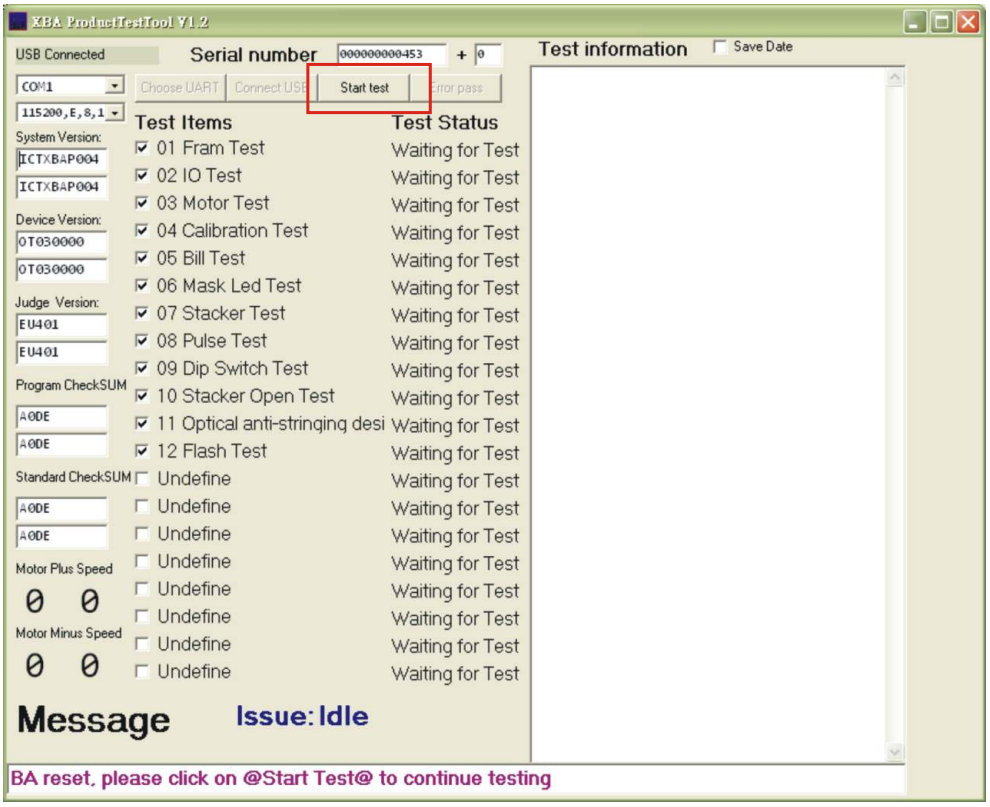


Figure.31

Step 5:

01 Fram Test 、02 I/O Sensor Test、03 Motor Test.

It will appear “NG” if error happens.

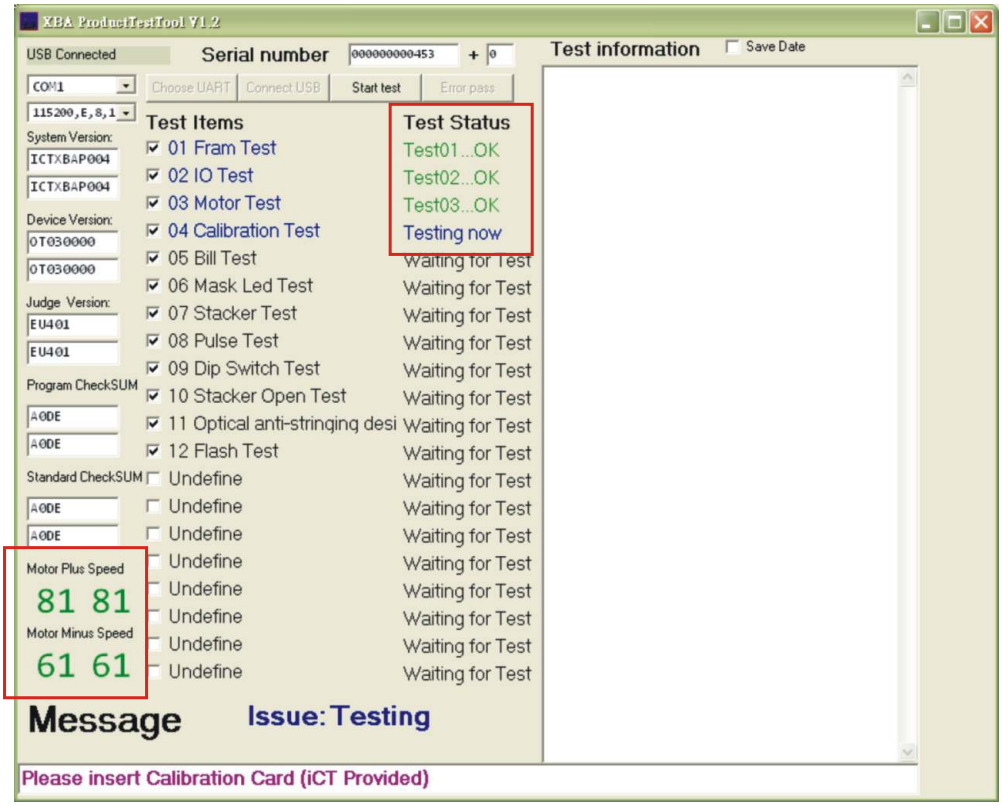


Figure.32

Step 6:

Calibration Test: Please insert XBA series calibration card.

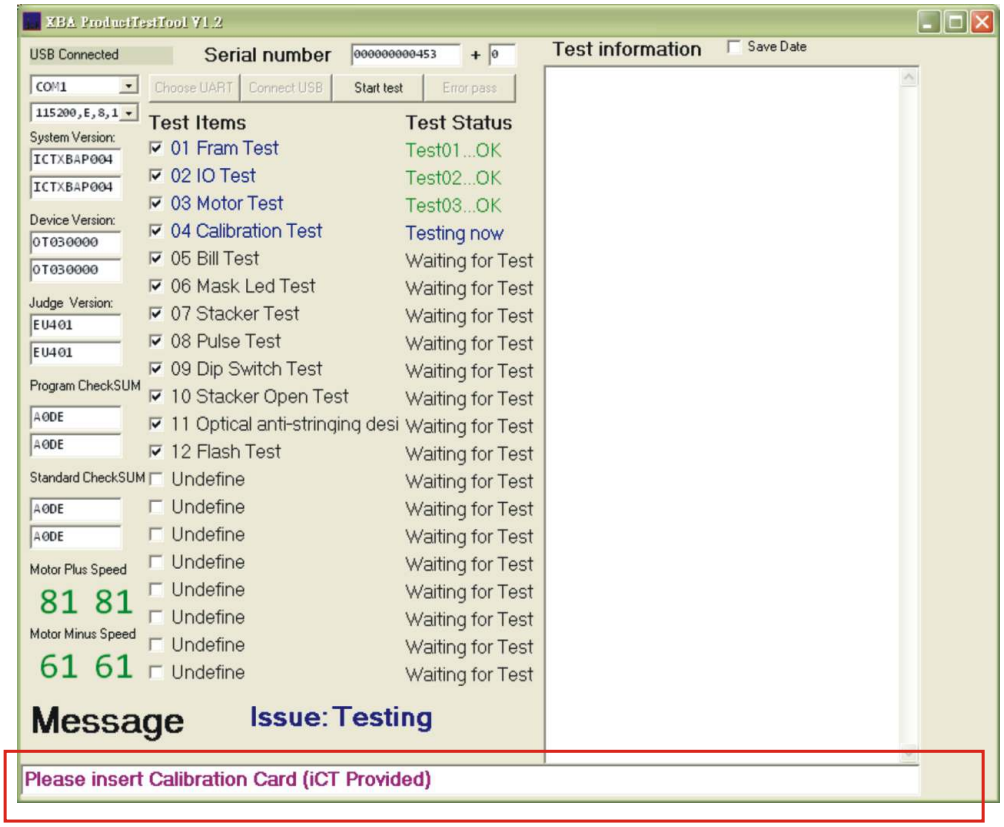


Figure.33

Step 7:

The message shows at the bottom left corner.

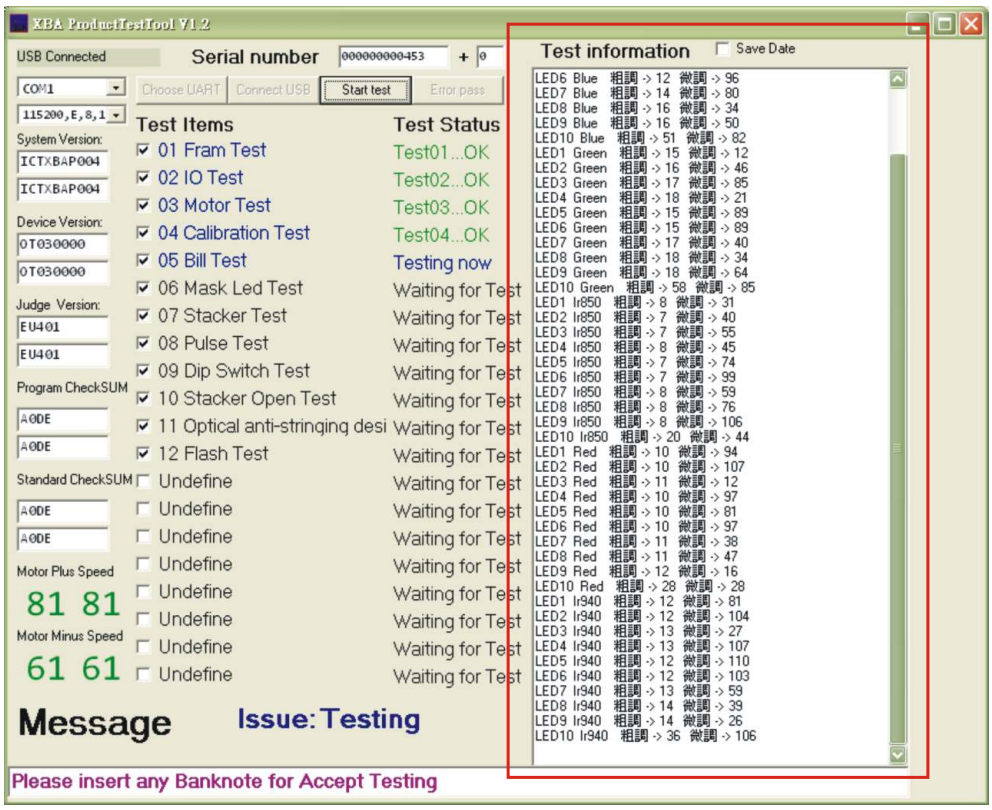

XBA ProductTestTool V1.2
USB Connected
Serial number
000000000453
+ 0
COM1
115200,E,8,1
Choose UART
Connect USB
Start test
Error pass
System Version:
ICTXBAP004
ICTXBAP004
Device Version:
0T030000
0T030000
Judge Version:
EU401
EU401
Program CheckSUM
A0DE
A0DE
Standard CheckSUM
A0DE
A0DE
Motor Plus Speed
81 81
Motor Minus Speed
61 61
Test Items
Test Status
01 Fram Test
Test01...OK
02 IO Test
Test02...OK
03 Motor Test
Test03...OK
04 Calibration Test
Test04...OK
05 Bill Test
Testing now
06 Mask Led Test
07 Stacker Test
08 Pulse Test
09 Dip Switch Test
10 Stacker Open Test
11 Optical anti-stringing desi
12 Flash Test
Undefine
Waiting for Test
Test information
Save Date
LED6 Blue 粗調 -> 12 微調 -> 96
LED7 Blue 粗調 -> 14 微調 -> 80
LED8 Blue 粗調 -> 16 微調 -> 34
LED9 Blue 粗調 -> 16 微調 -> 50
LED10 Blue 粗調 -> 51 微調 -> 82
LED1 Green 粗調 -> 15 微調 -> 12
LED2 Green 粗調 -> 16 微調 -> 46
LED3 Green 粗調 -> 17 微調 -> 85
LED4 Green 粗調 -> 18 微調 -> 21
LED5 Green 粗調 -> 15 微調 -> 89
LED6 Green 粗調 -> 15 微調 -> 89
LED7 Green 粗調 -> 17 微調 -> 40
LED8 Green 粗調 -> 18 微調 -> 34
LED9 Green 粗調 -> 18 微調 -> 64
LED10 Green 粗調 -> 59 微調 -> 85
LED1 Ir850 粗調 -> 8 微調 -> 31
LED2 Ir850 粗調 -> 7 微調 -> 40
LED3 Ir850 粗調 -> 7 微調 -> 55
LED4 Ir850 粗調 -> 8 微調 -> 45
LED5 Ir850 粗調 -> 7 微調 -> 74
LED6 Ir850 粗調 -> 7 微調 -> 99
LED7 Ir850 粗調 -> 8 微調 -> 59
LED8 Ir850 粗調 -> 8 微調 -> 76
LED9 Ir850 粗調 -> 8 微調 -> 106
LED10 Ir850 粗調 -> 20 微調 -> 44
LED1 Red 粗調 -> 10 微調 -> 94
LED2 Red 粗調 -> 10 微調 -> 107
LED3 Red 粗調 -> 11 微調 -> 12
LED4 Red 粗調 -> 10 微調 -> 97
LED5 Red 粗調 -> 10 微調 -> 81
LED6 Red 粗調 -> 10 微調 -> 97
LED7 Red 粗調 -> 11 微調 -> 38
LED8 Red 粗調 -> 11 微調 -> 47
LED9 Red 粗調 -> 12 微調 -> 16
LED10 Red 粗調 -> 28 微調 -> 28
LED1 Ir940 粗調 -> 12 微調 -> 81
LED2 Ir940 粗調 -> 12 微調 -> 104
LED3 Ir940 粗調 -> 13 微調 -> 27
LED4 Ir940 粗調 -> 13 微調 -> 107
LED5 Ir940 粗調 -> 12 微調 -> 110
LED6 Ir940 粗調 -> 12 微調 -> 103
LED7 Ir940 粗調 -> 13 微調 -> 59
LED8 Ir940 粗調 -> 14 微調 -> 39
LED9 Ir940 粗調 -> 14 微調 -> 26
LED10 Ir940 粗調 -> 36 微調 -> 106
Message
Issue: Testing
Please insert any Banknote for Accept Testing

Figure.34

Step 8:

Bill test. Please insert any Banknote for Accept Testing.

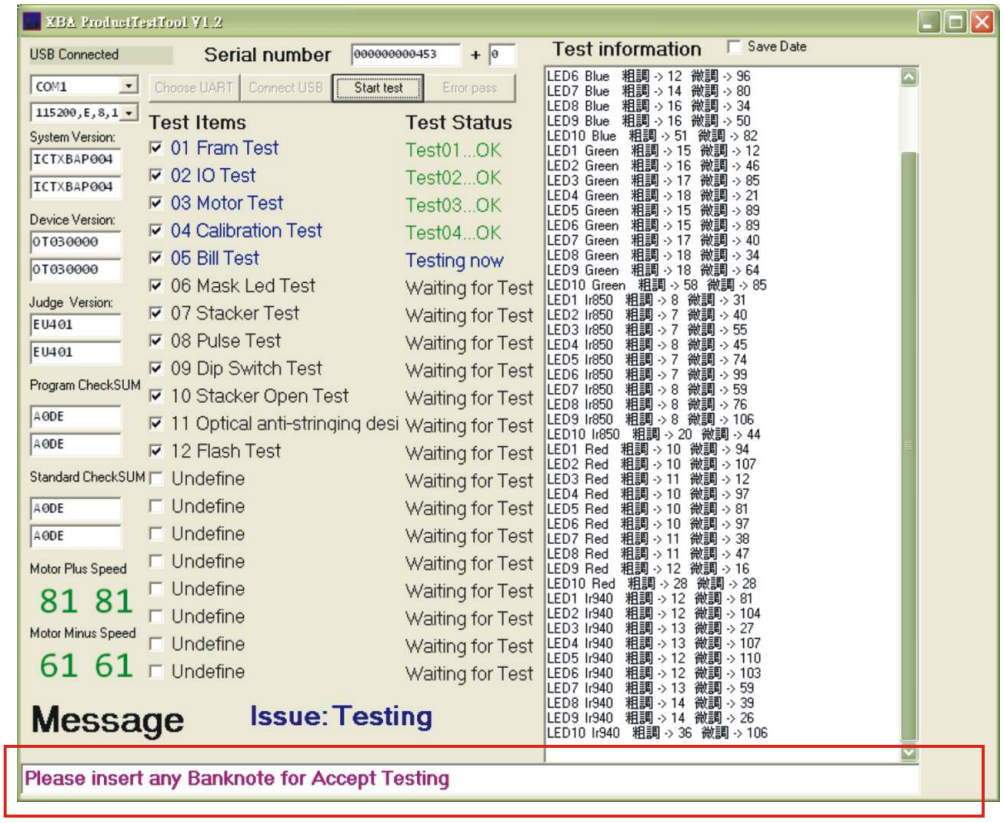


Figure.35

Step 9:
Mask LED Test: Please check if the LED flashed the correct color and press OK or NG in the pop-up window.

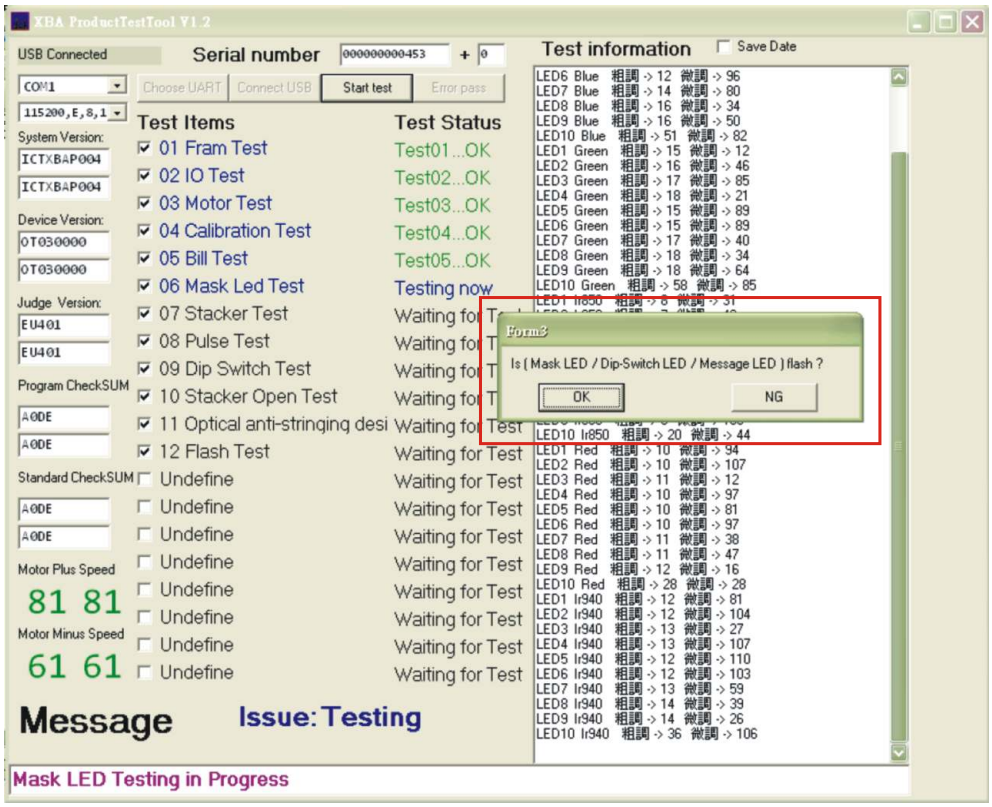


Figure.36

Step 10:
Stacker Test: Automatically perform stacking for one time, it will be listed as NG if error happens.

Step 11:

Pulse Test : Please check if the pulse the correct and press OK or NG in the pop-up window.

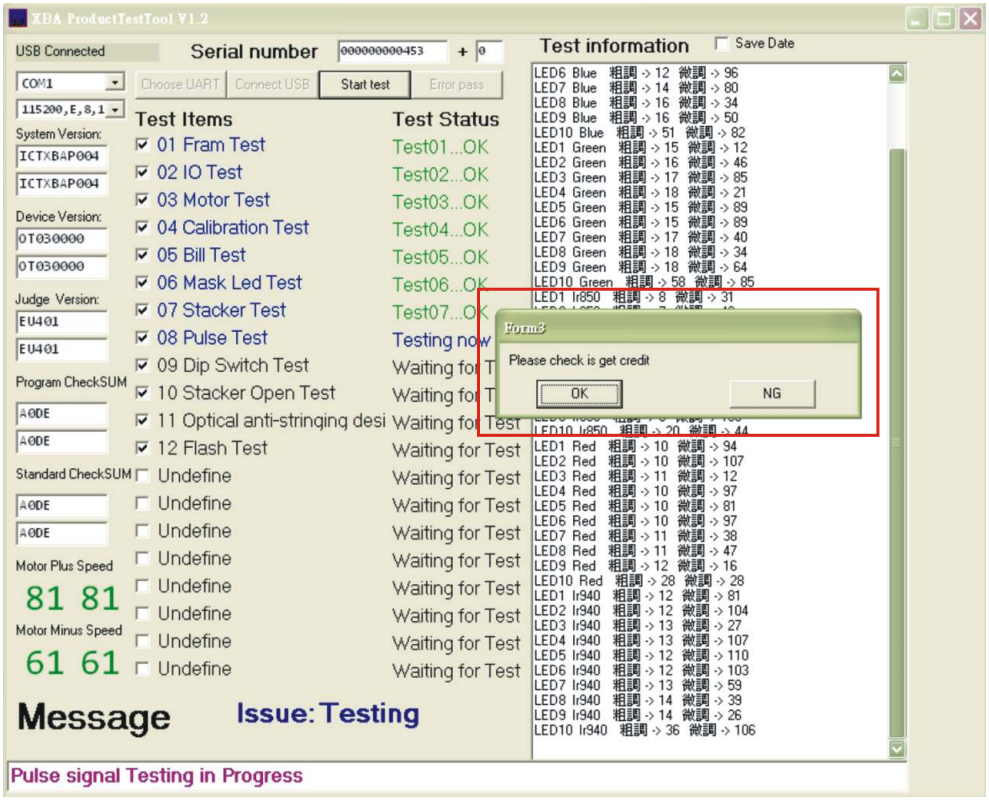


Figure.37

Step 12:

Dip Switch Test: Please turn on/off the DIP switch according to the message at the bottom left corner.

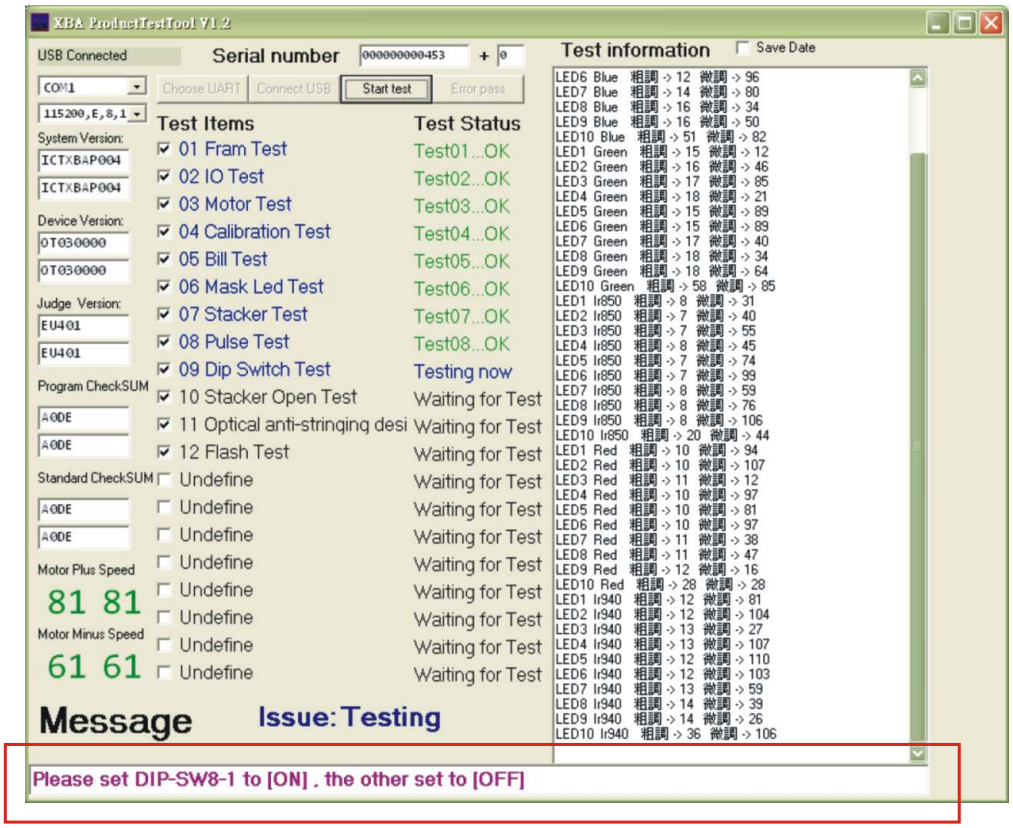


Figure.38

Step 13:

While testing “10 Cash box Test”, please remove and reinstall the cash box according to the message at the bottom left corner.

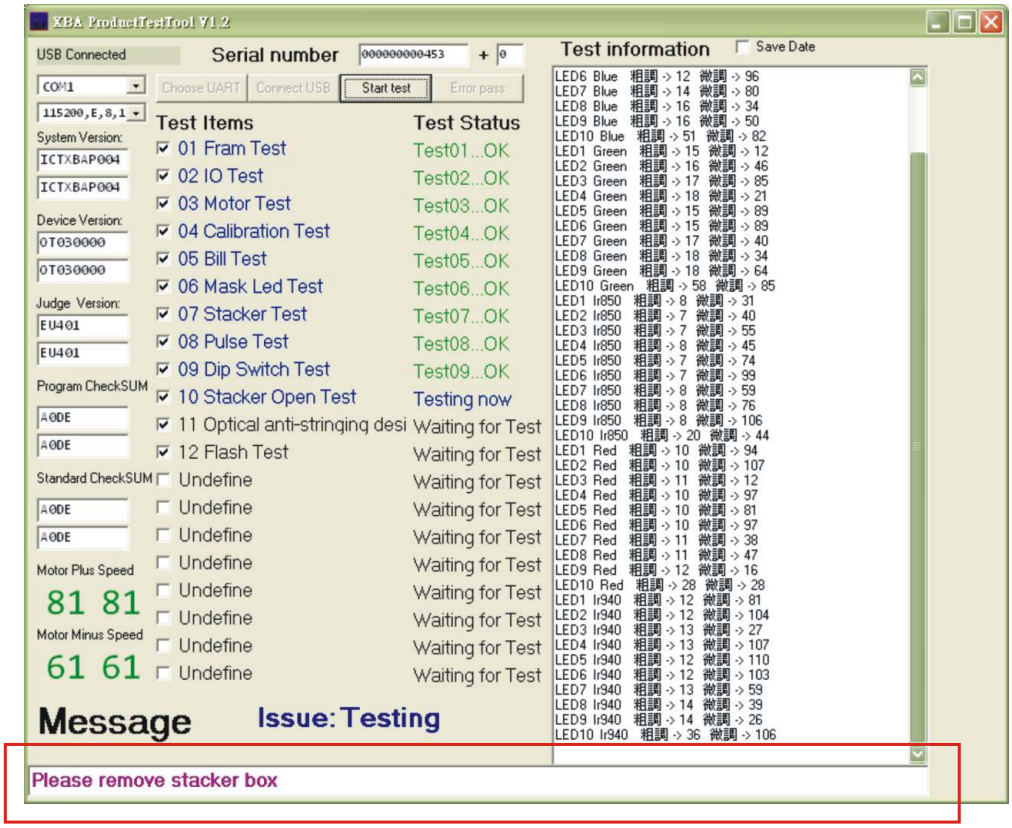


Figure.39

Step 14:

Optical anti-stringing design Test, test Optical anti-stringing function.

It will appear “NG” if error happens.

Step 15:
Flash Test There will be error message in the Test information if the read/write error happens.

The “Issue” shows the result after the entire test:

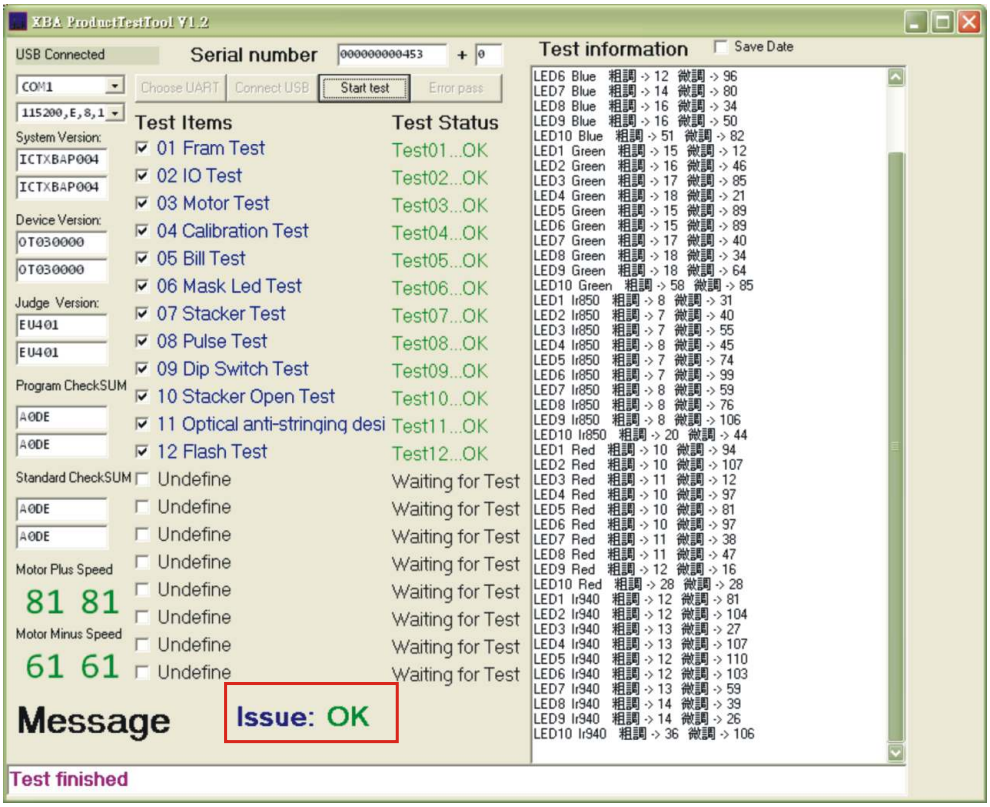
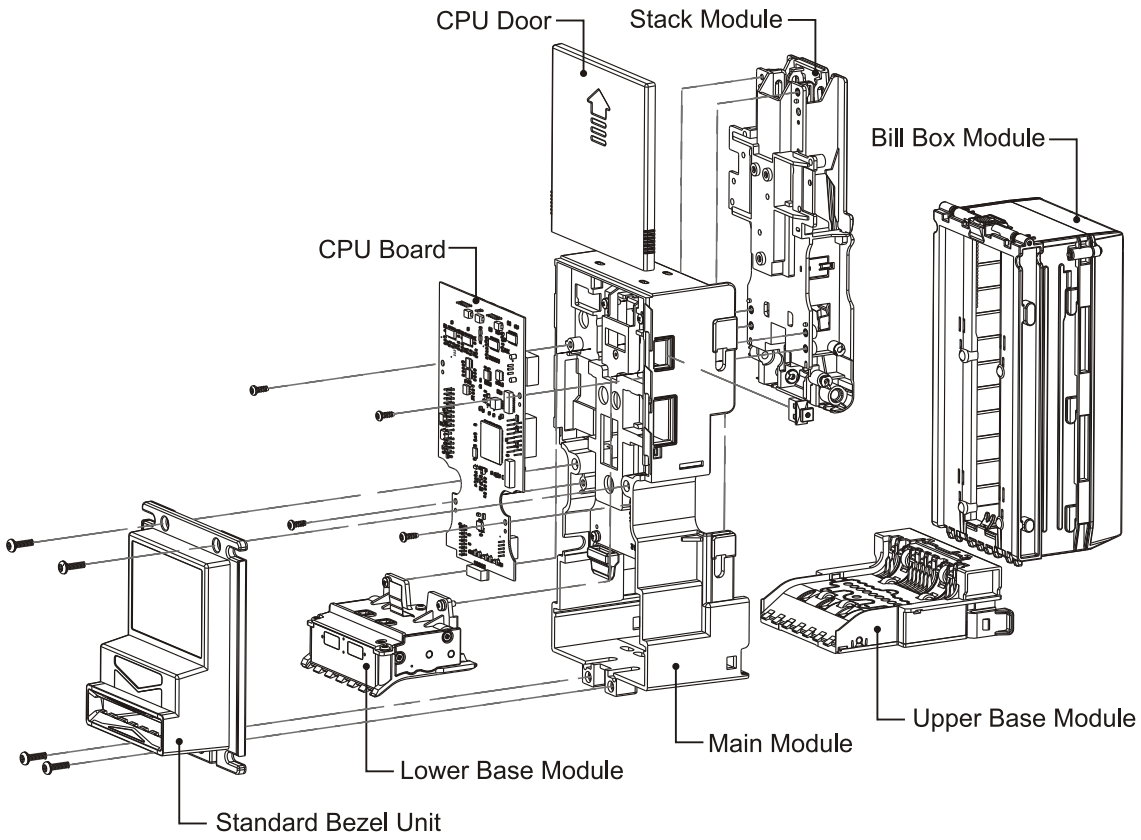


Figure.40

2-3. Component Names

Figure.41



2-4. Assembling Procedure

2-4-1. Disassembly Procedure

Step 1:
Remove bill box.

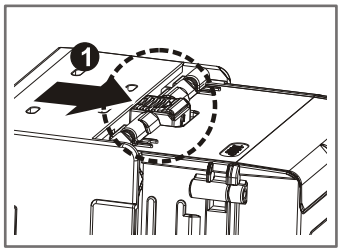


Figure.42

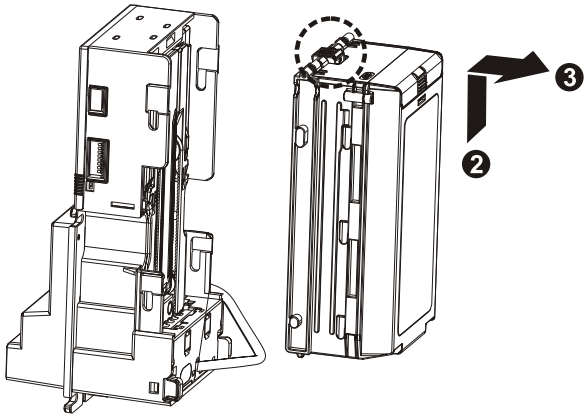


Figure.43

Step 2:
Loosen four screws to remove the bezel.

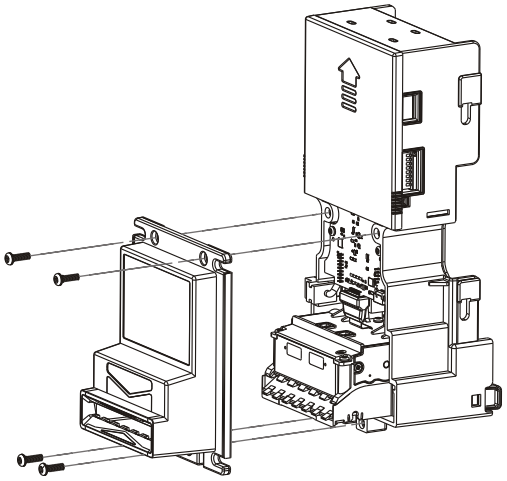


Figure.44

Step 3:
Remove the cover plate of main unit.

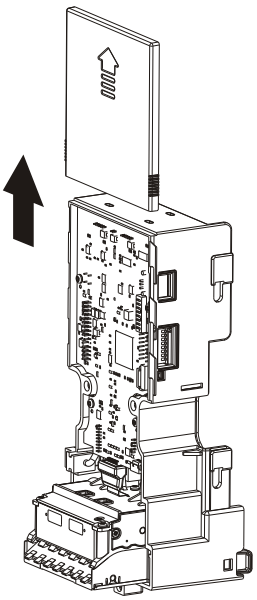


Figure.45

Step 4:
Loosen four screws to remove cpu board.

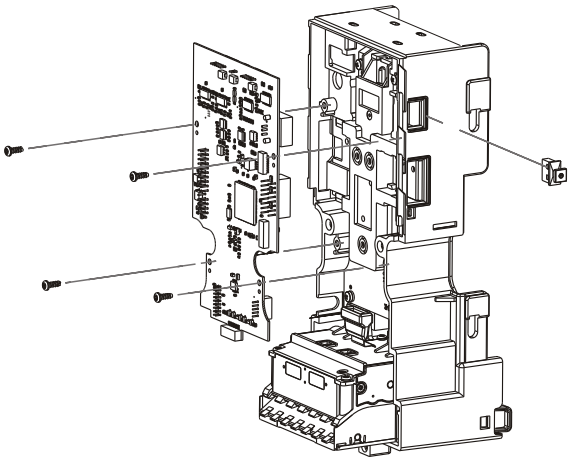


Figure.46

Step 5:
Press the snap on both left and right sides to remove the upper base.

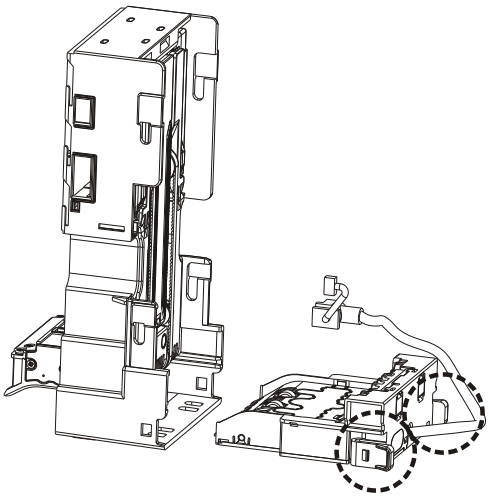


Figure.47

Step 6:
Loosen two screws to remove the Lower Base.

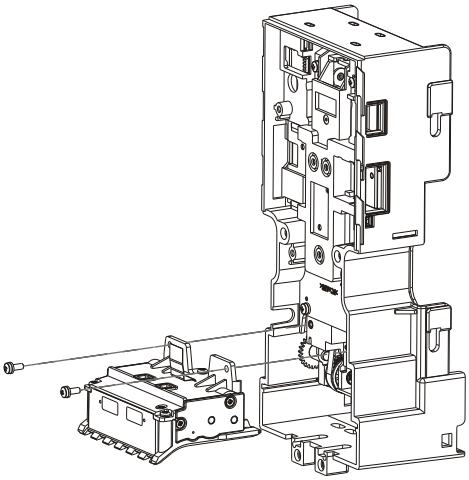


Figure.48

Step 7:
Loosen four screws to remove transmission module.

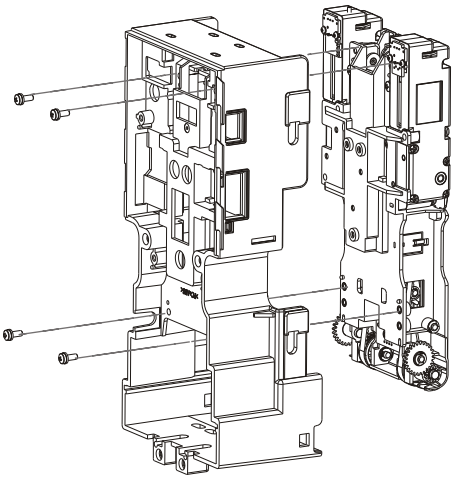
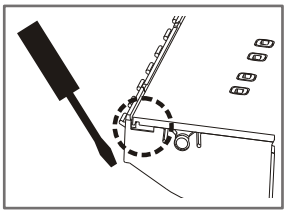


Figure.49

Step 8:

1. Remove the sensor unit top cover.



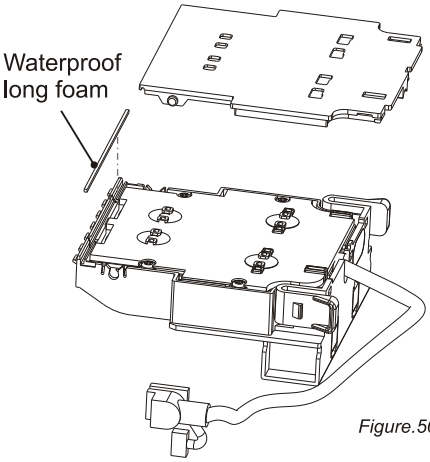


Figure.50

2. Remove Upper Base Waterproof Foam. Remove Upper Base Baffle Board.

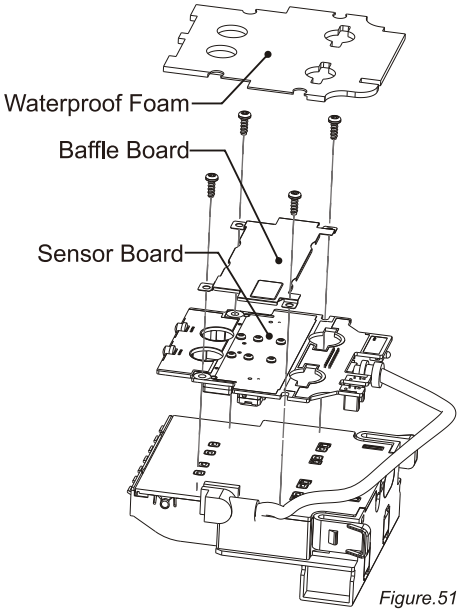


Figure.51

3. Disassembly IR LED/ Sensor mirror.

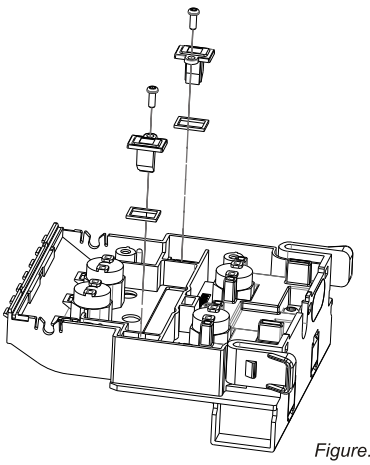


Figure.52

4. Disassembly security hook.

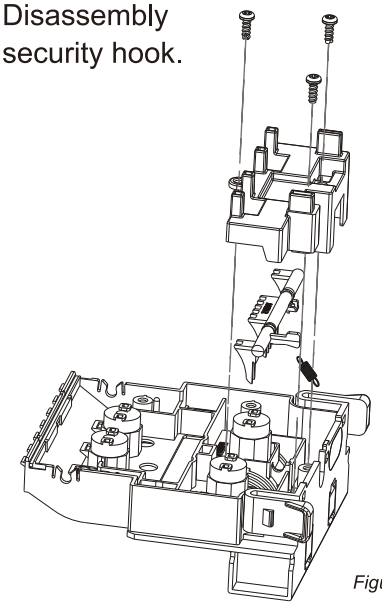


Figure.53

Step 9:

1. Loosen three screws to remove the Lower Base cover.

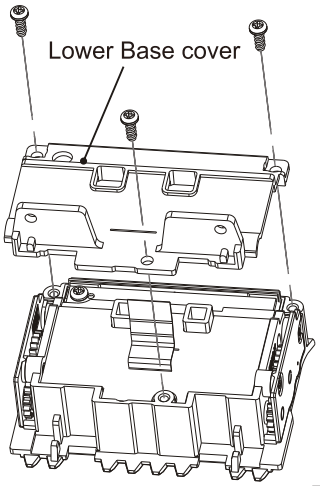


Figure.54

2. Remove Lower Base Water Proof Rubber. Loosen three screws to remove the LED board.

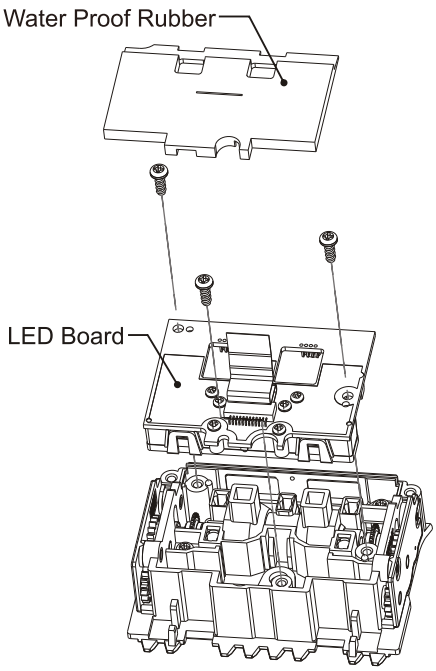


Figure.55

3. Loosen four screws on the side to remove the Lower Base Gear Cover Plate.

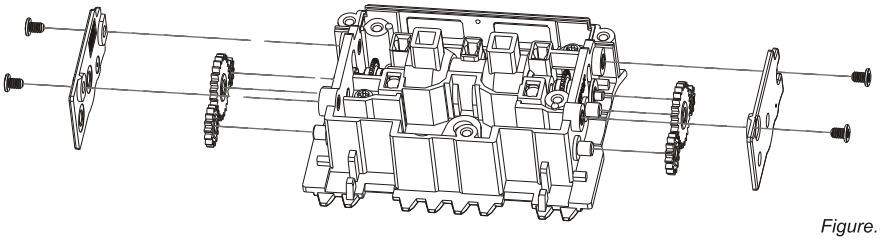


Figure.56

4. Loosen two screws to remove Lower Base Waterproof cover.

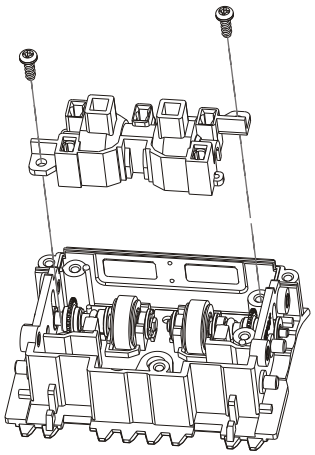


Figure.57

5. Remove two Plastic Axle Bush to take rubber wheels out.

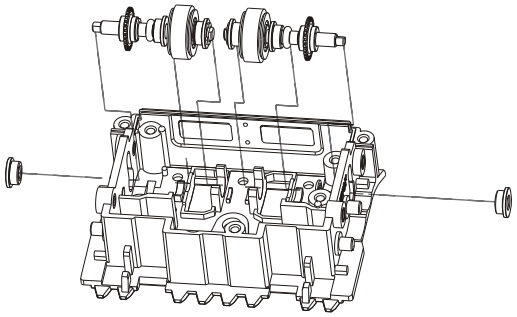


Figure.58

Step 10:

1. Disassembly transmission module. Loosen screw to remove Sensor board.

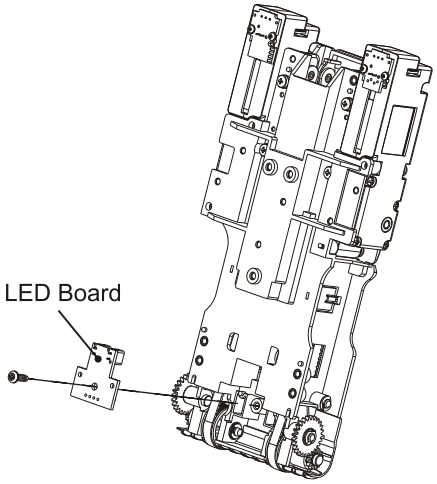


Figure.59

2. Loosen two screws to remove Block structure Rails.

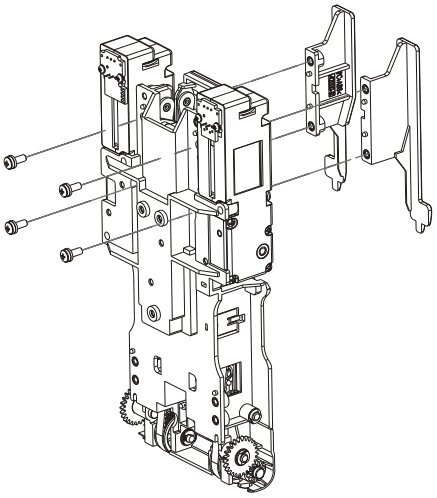


Figure.60

3. Loosen four screws to remove Bill Sending Motor Set.

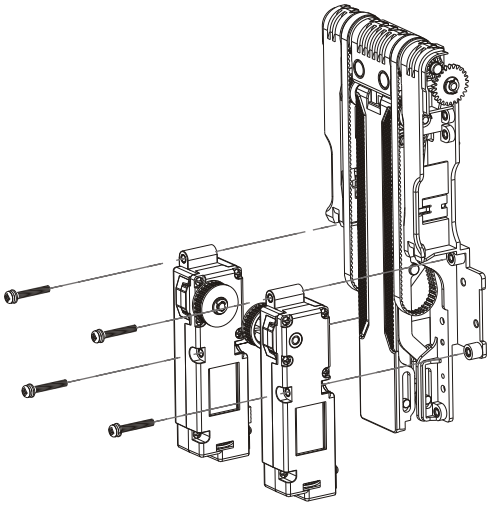


Figure.61

4. Remove E-ring. Pull the Belt Axle out. Remove Belt Roller.

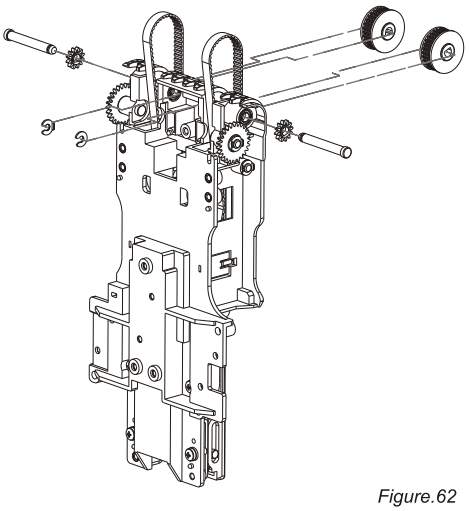


Figure.62

5. Rise Stacker Board up. Remove E-ring. Remove Stacker Board.

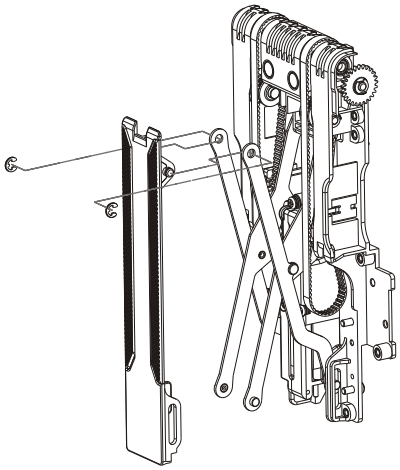


Figure.63

6. Loosen three screws to remove Stacker Motor.

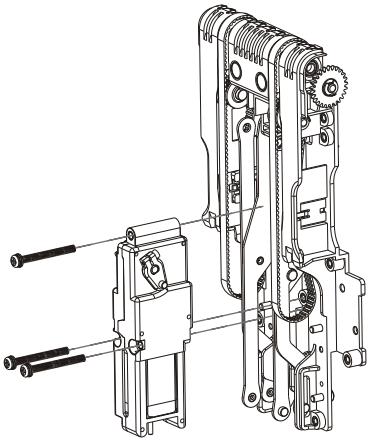


Figure.64

7. Remove E-ring. Pull the Belt Axle out. Remove Belt & Belt Roller.

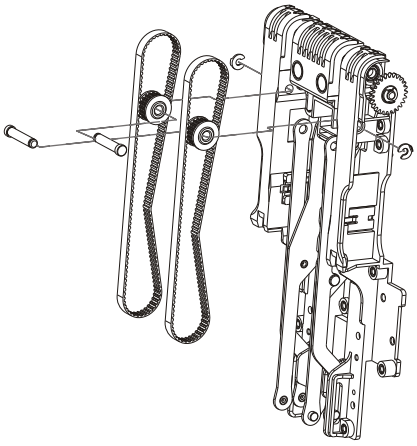
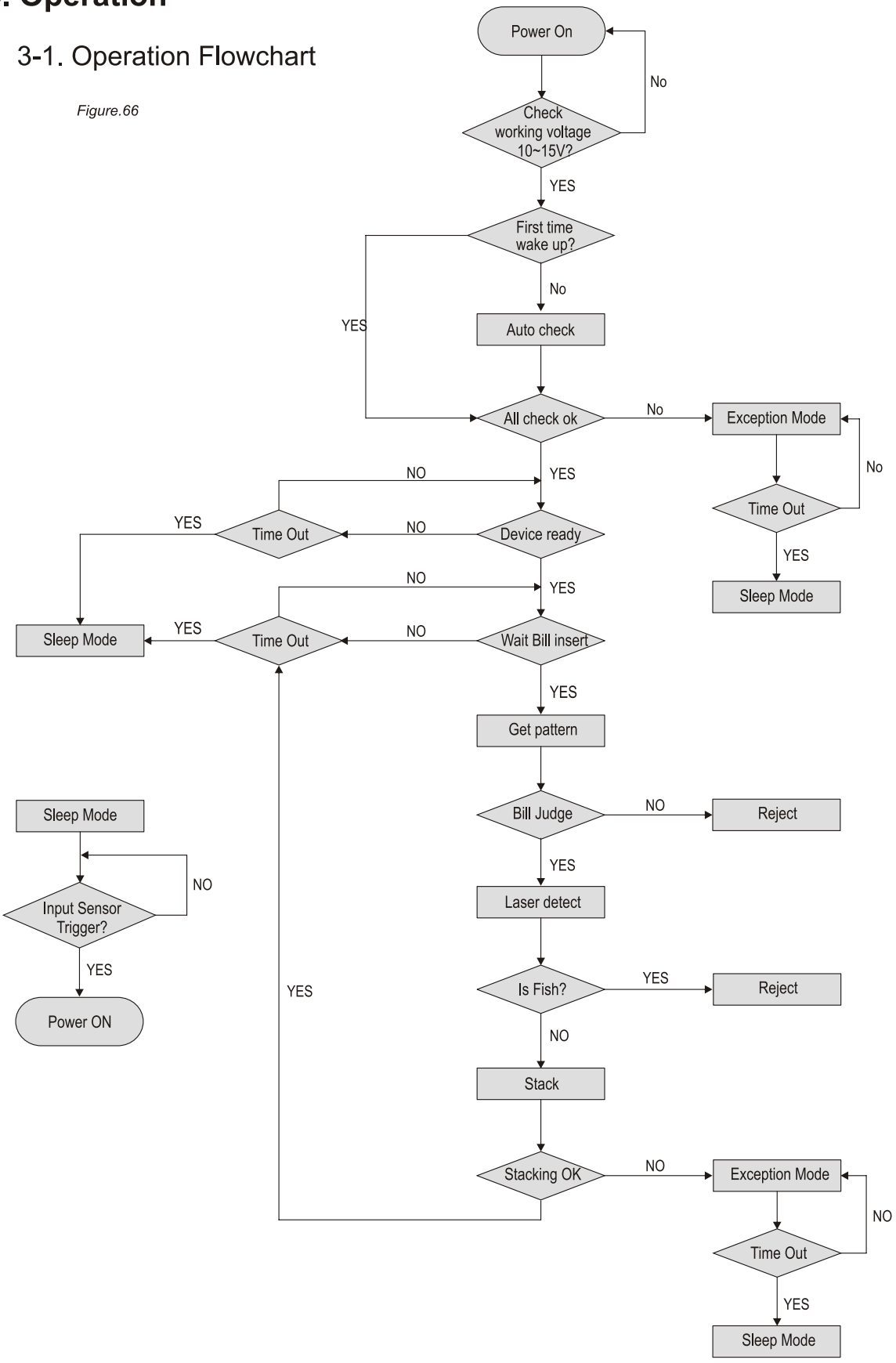


Figure.65

3. Operation

3-1. Operation Flowchart

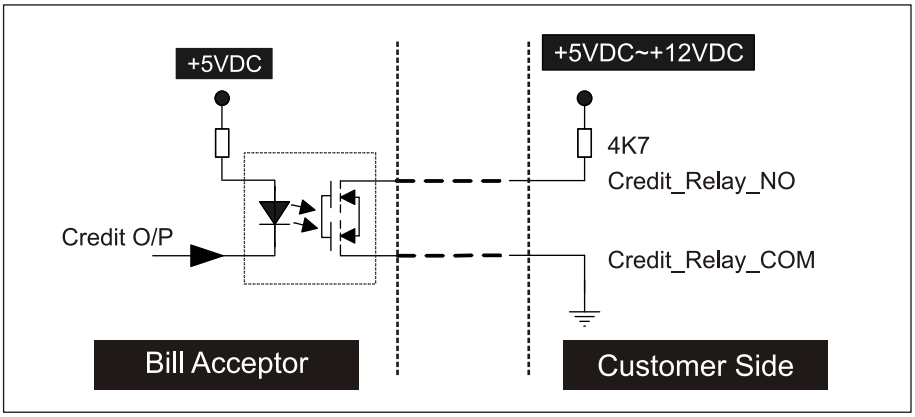
Figure.66



3-2. I/O Circuit

Pulse Interface.

Figure.67



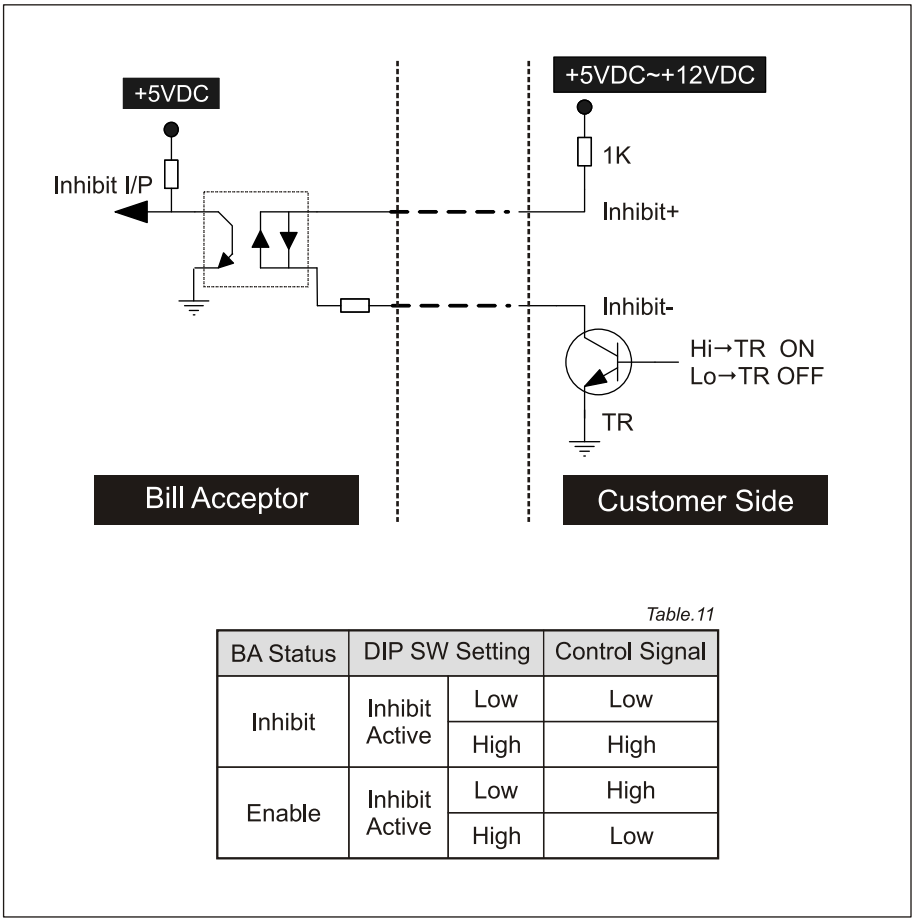
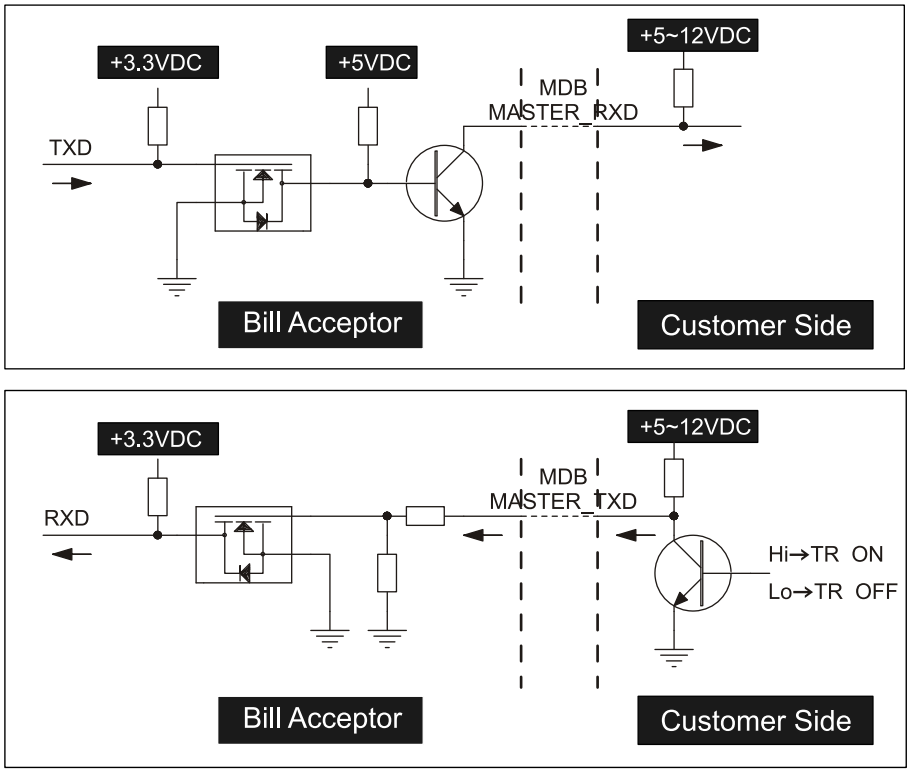


Table.11

BA Status	DIP SW Setting		Control Signal
Inhibit	Inhibit Active	Low	Low
		High	High
Enable	Inhibit Active	Low	High
		High	Low

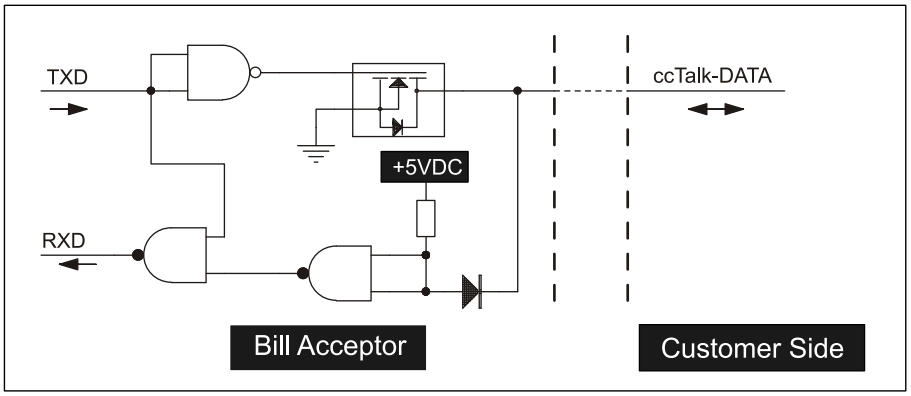
MDB Interface.

Figure.68



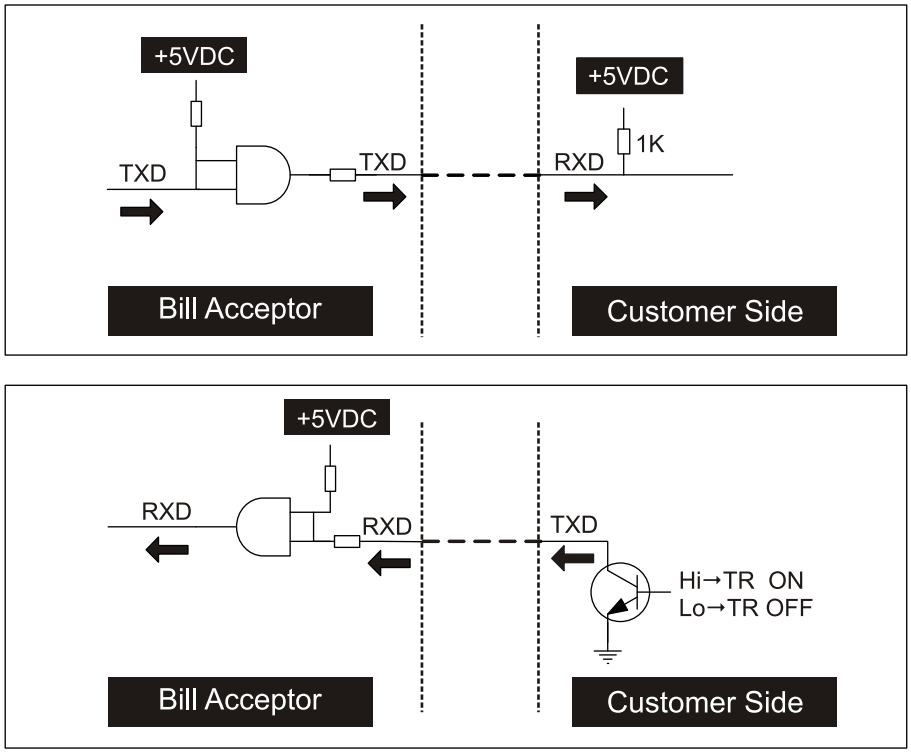
ccTalk Interface.

Figure.69



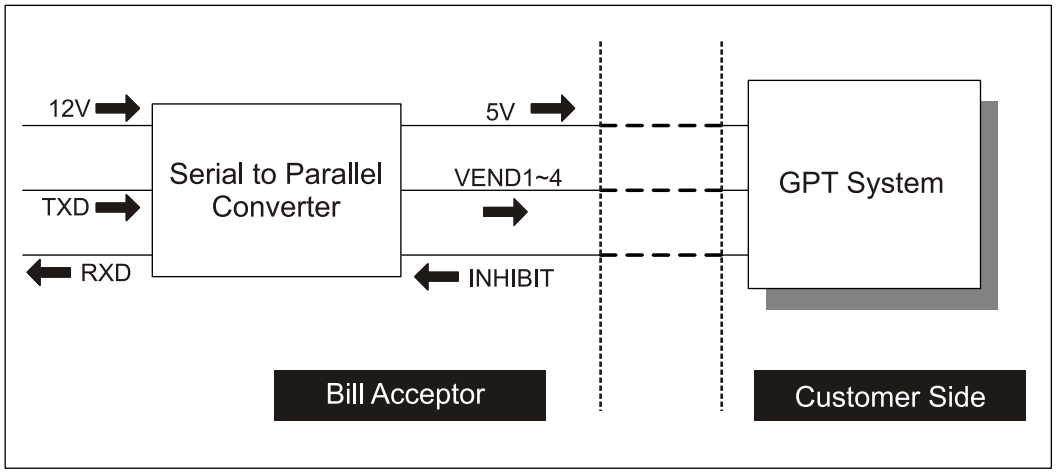
ICT Interface.

Figure.70



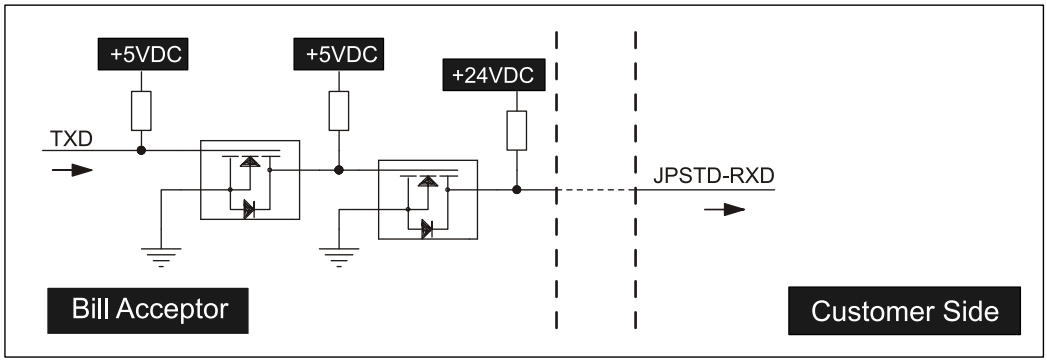
GPT Parallel Interface

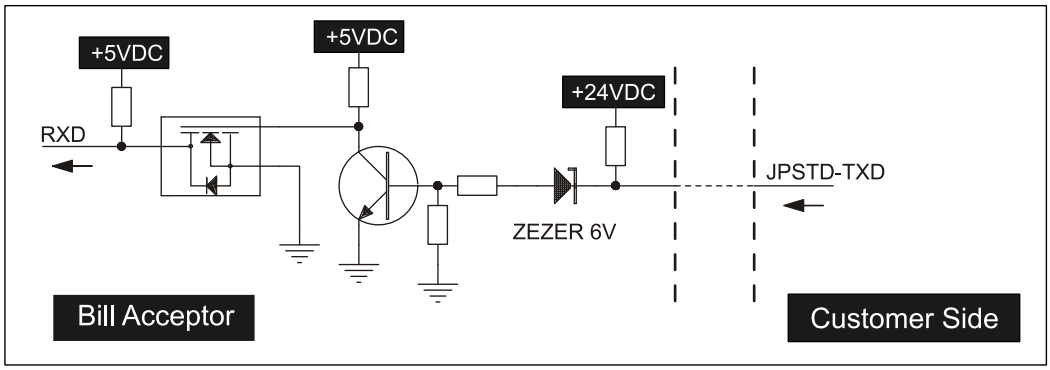
Figure.71

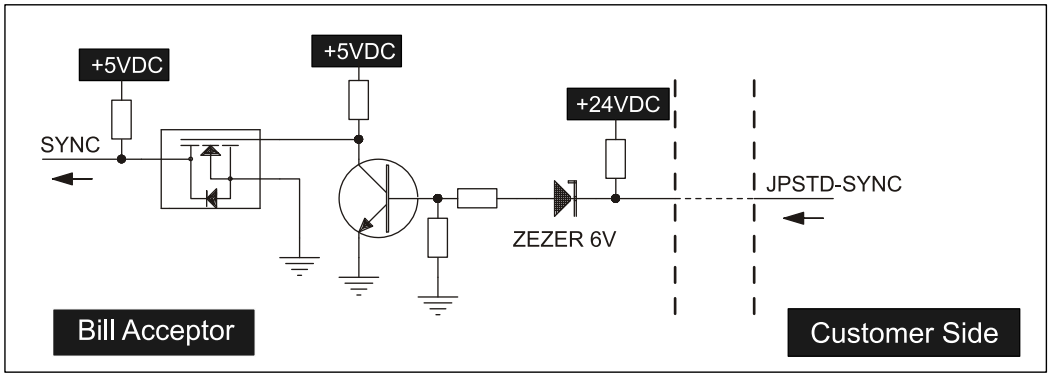


JPSTD Interface.

Figure.72







4. Maintenance

To make sure the bill acceptor always works smoothly, please clean the internal parts regularly.

To clean the internal parts:

1. Press the buttons on the sides of bill path and pull the unit out.

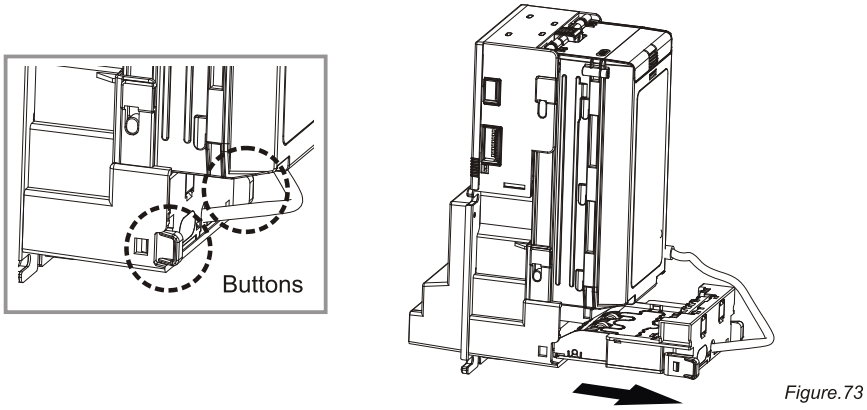


Figure.73

2. Use a soft, dry cloth or towel to clean the bill path and sensors.

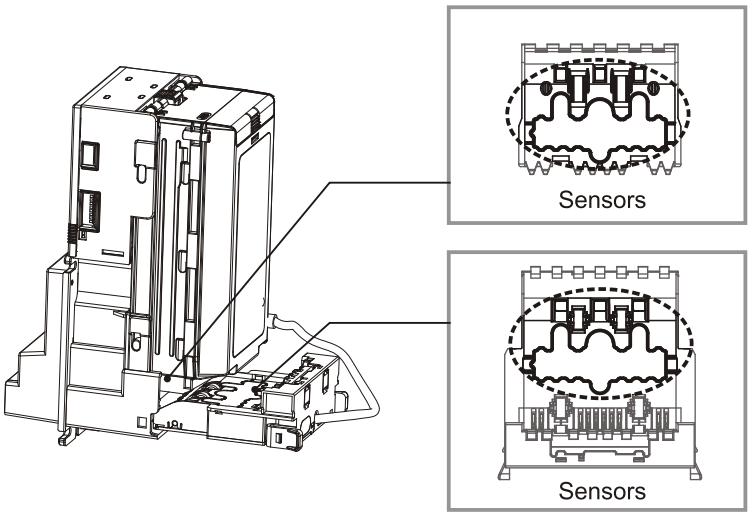


Figure.74

Maintenance Notice
(Any improper maintenance will result invalid warranty.)

Recommended	**Mild, non-abrasive, soap water.**
DO NOT USE	**Organic solvent , Alcohol, Volatile liquid.**

5. Trouble Shooting

5-1. Introduction

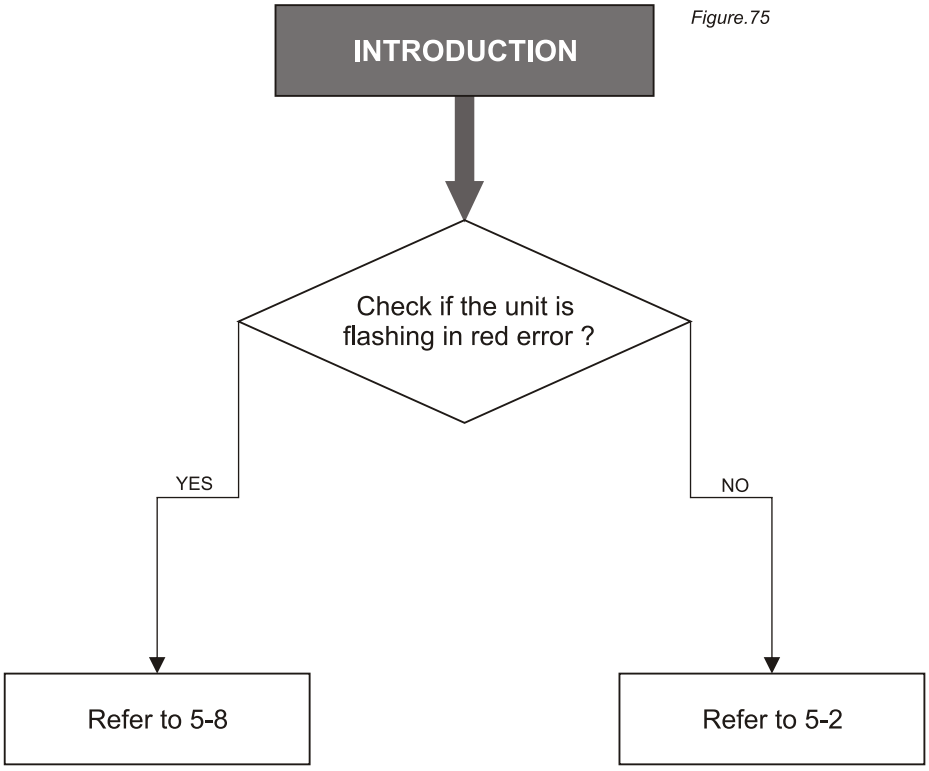


Figure.75

5-2. Failed to Power Up

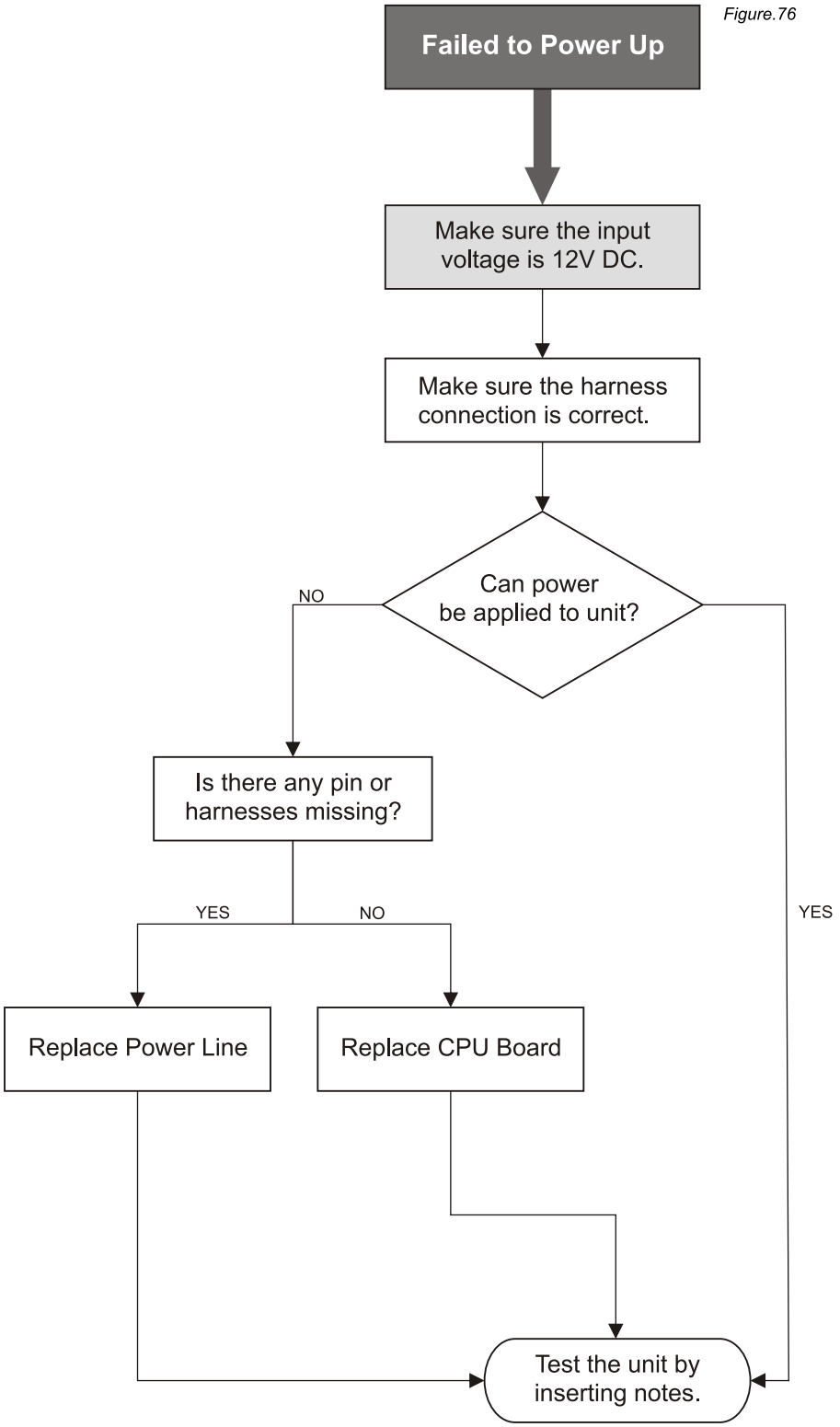

Failed to Power Up
Make sure the input voltage is 12V DC.
Make sure the harness connection is correct.
Can power be applied to unit?
NO
YES
Is there any pin or harnesses missing?
YES
NO
Replace Power Line
Replace CPU Board
Test the unit by inserting notes.

Figure.76

5-3. Failed to Communicate

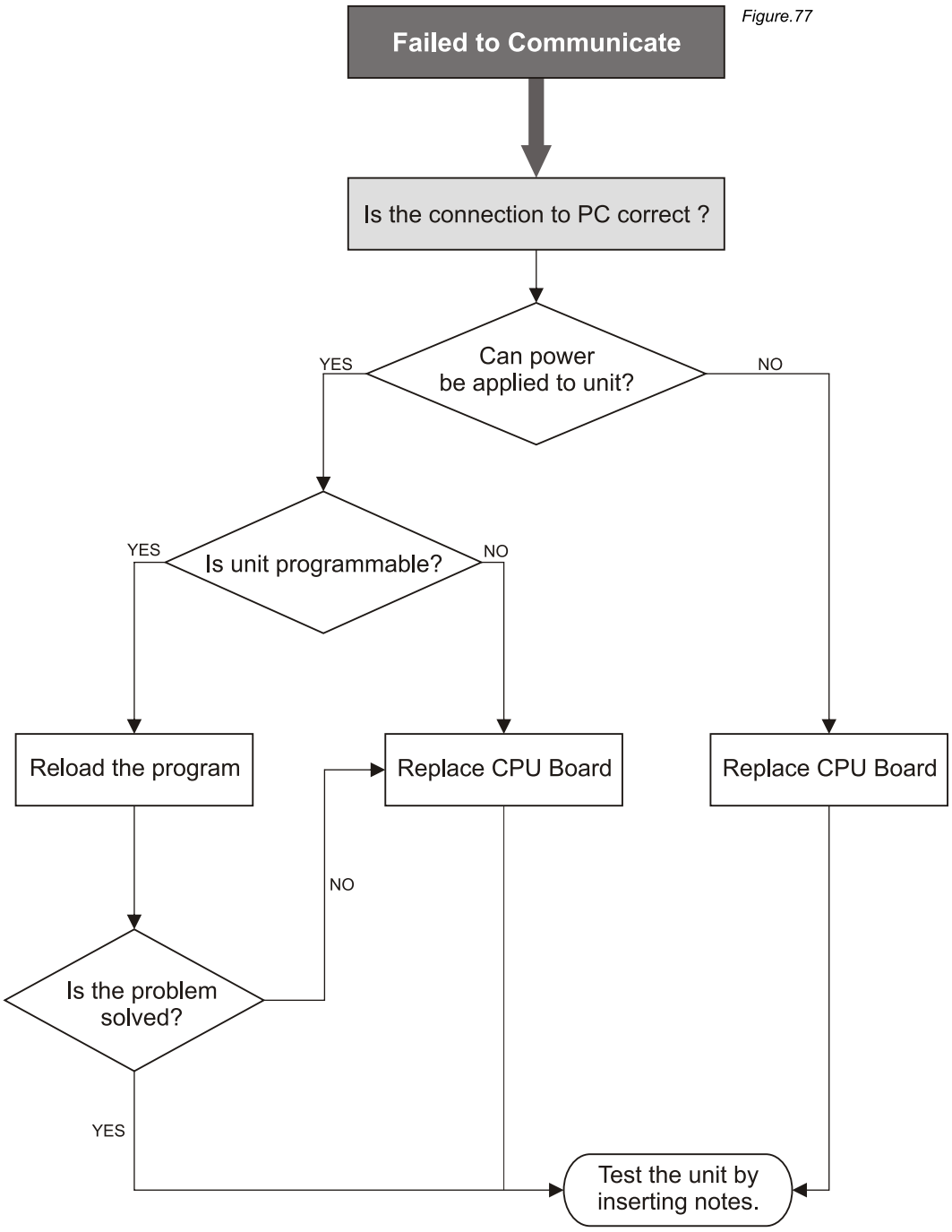


Figure.77

5-4. Low Acceptance

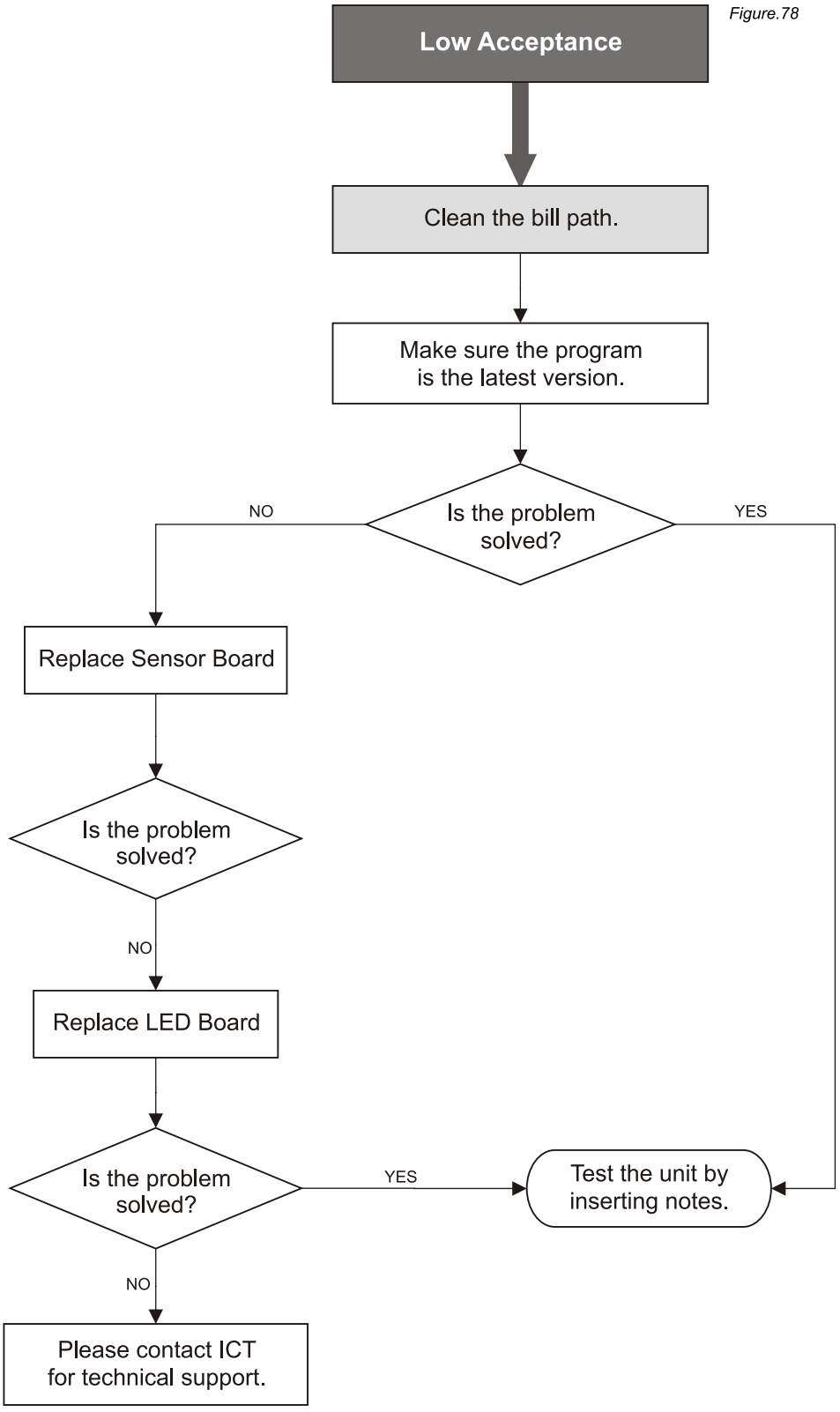


Figure.78

5-5. Wrong Credit Output

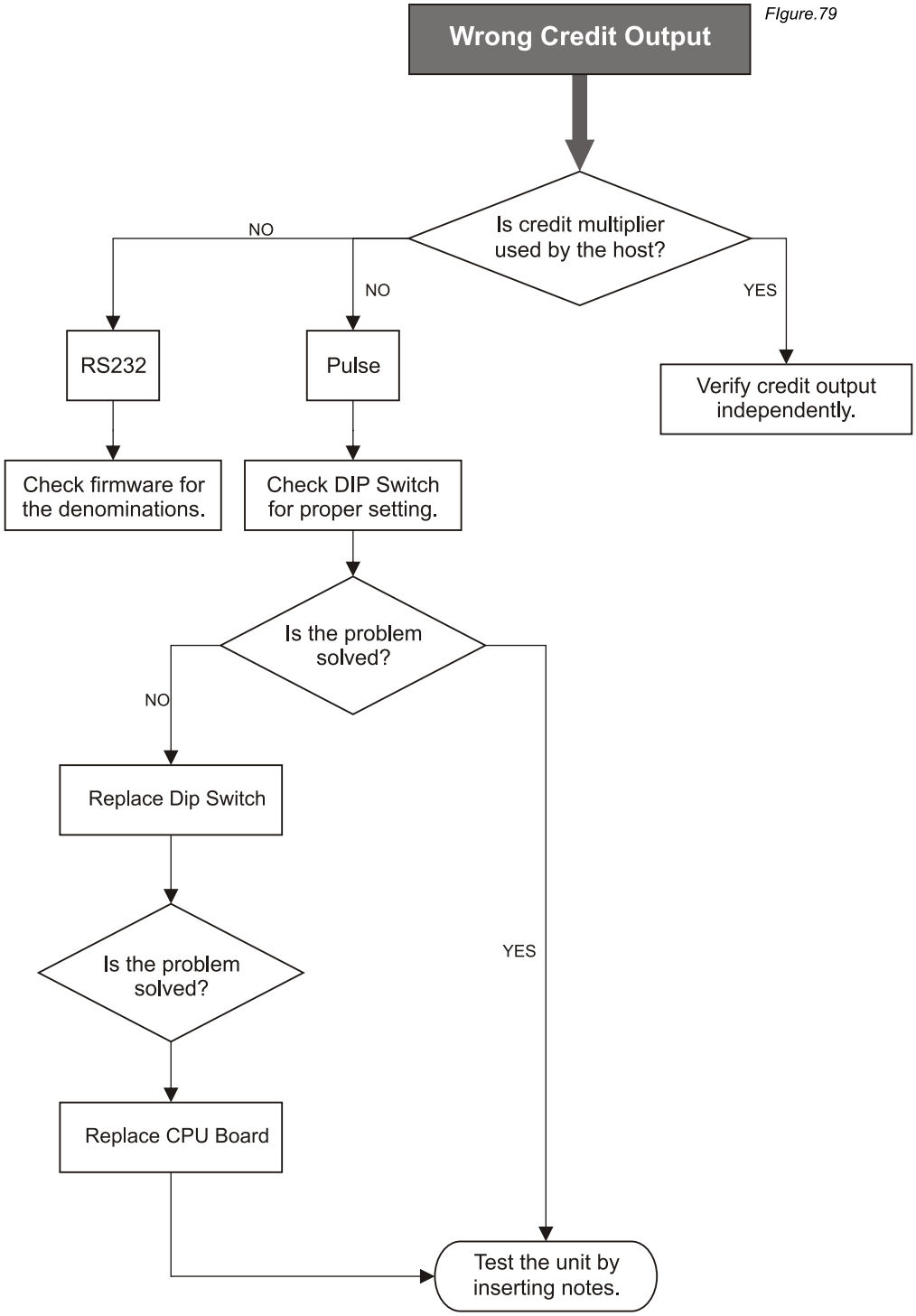


FIgure.79

5-6. Motor with Strange Sound

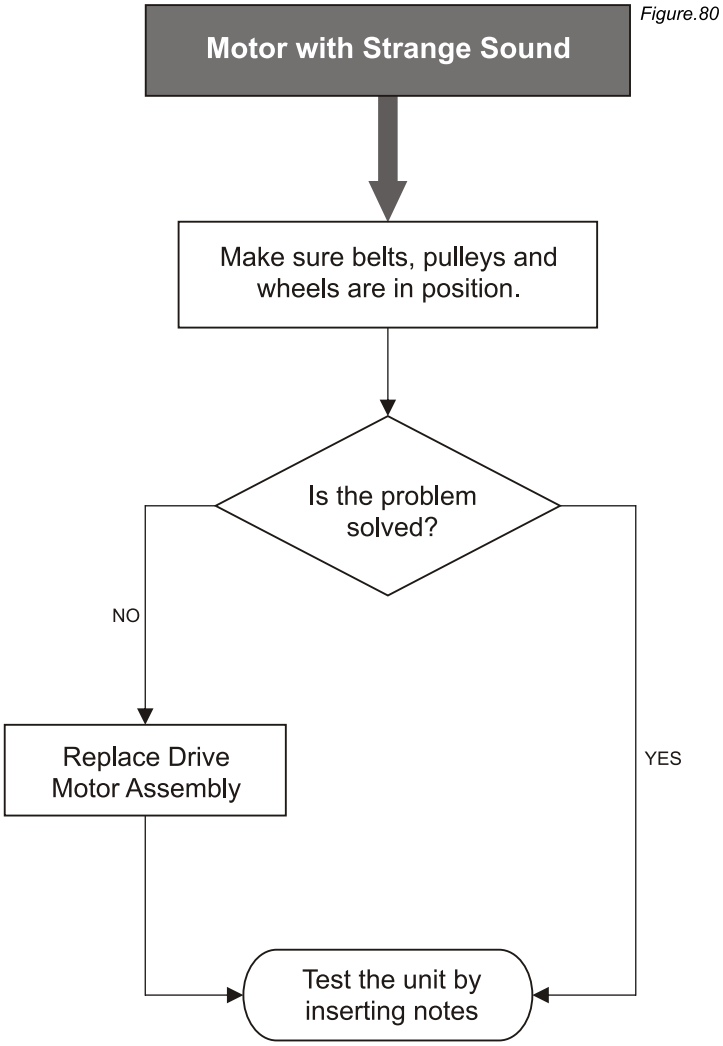

Motor with Strange Sound
Make sure belts, pulleys and wheels are in position.
Is the problem solved?
NO
YES
Replace Drive Motor Assembly
Test the unit by inserting notes

Figure.80

www.ictgroup.com.tw

5-7. No Diagnostic LED Status

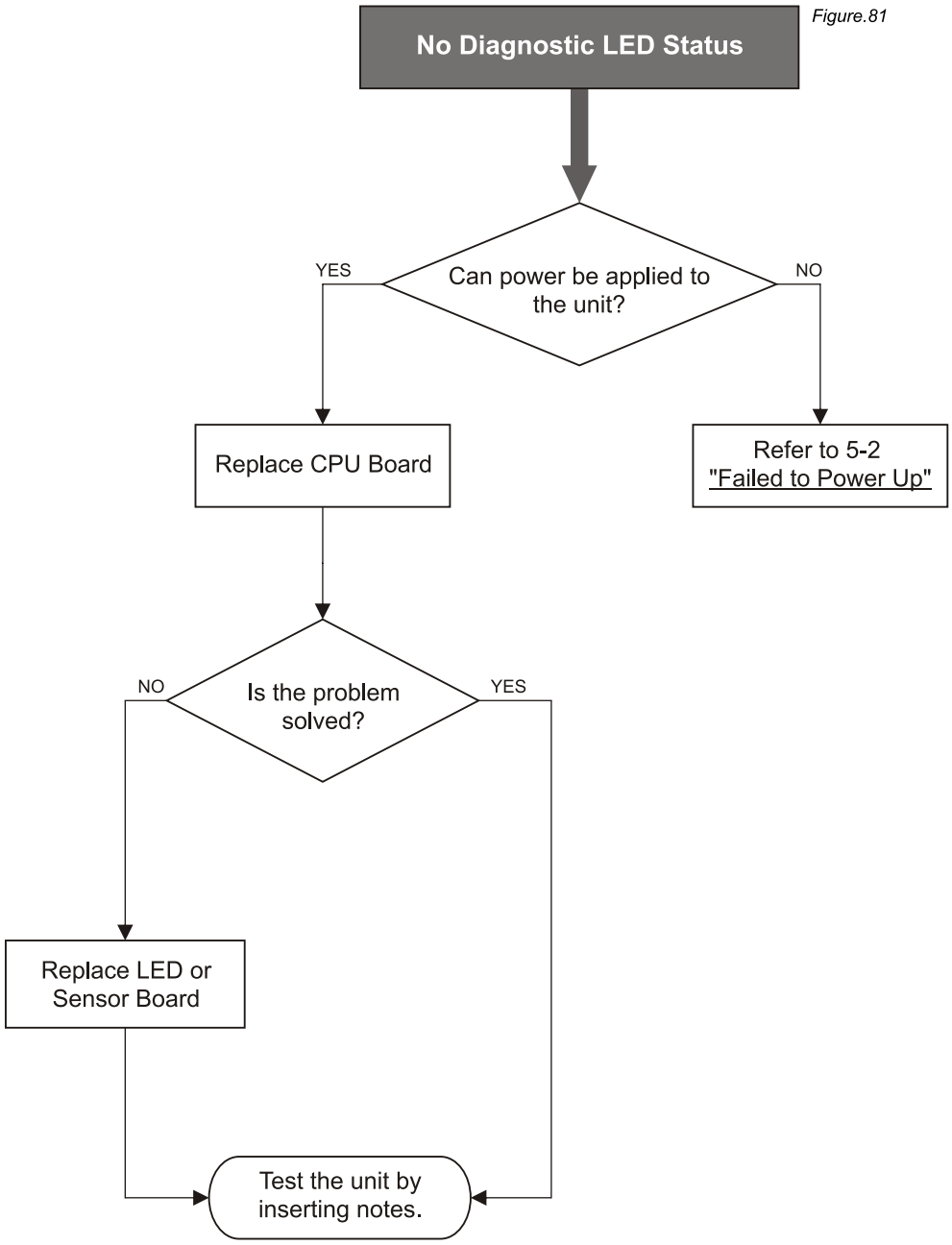
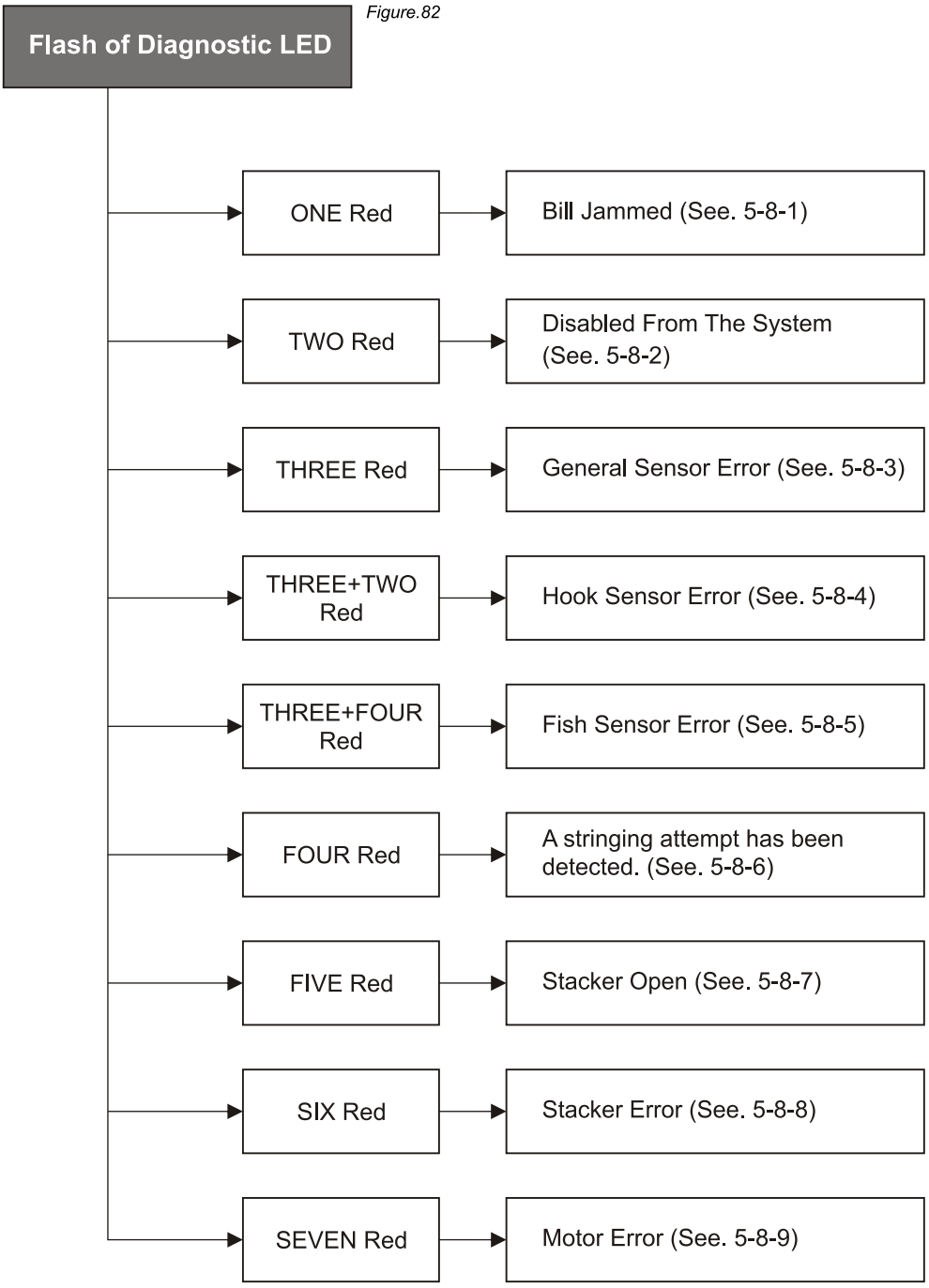


Figure.81

5-8. Bill Acceptor Error Code

Figure.82



5-8-1. One Flash

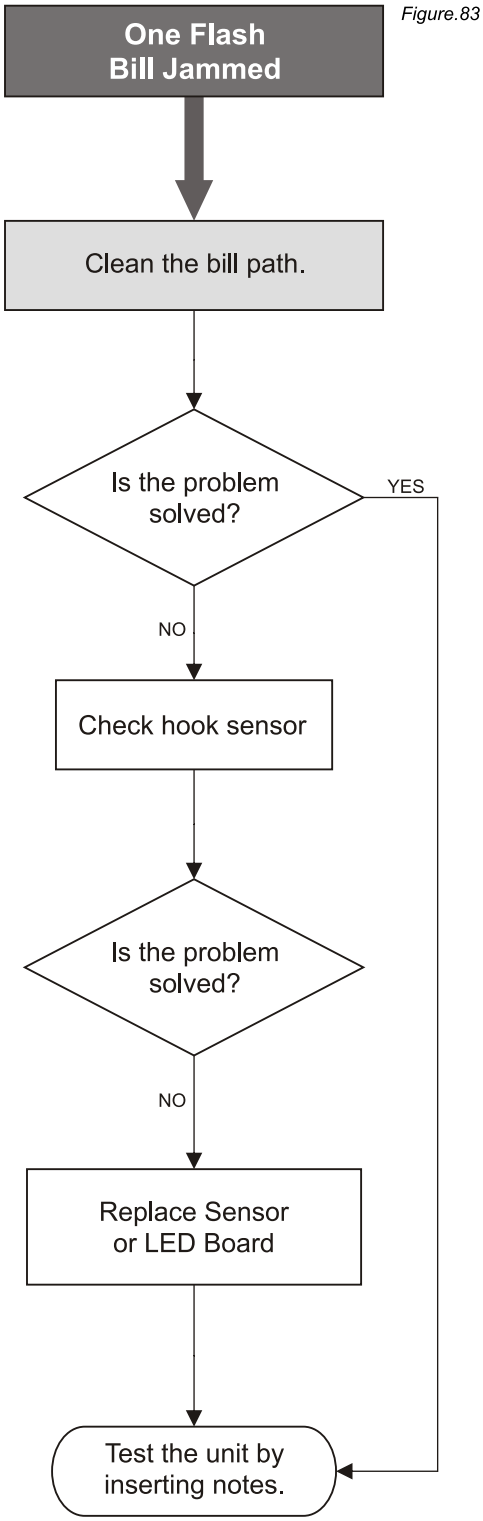


Figure.83

5-8-2. Two Flashes

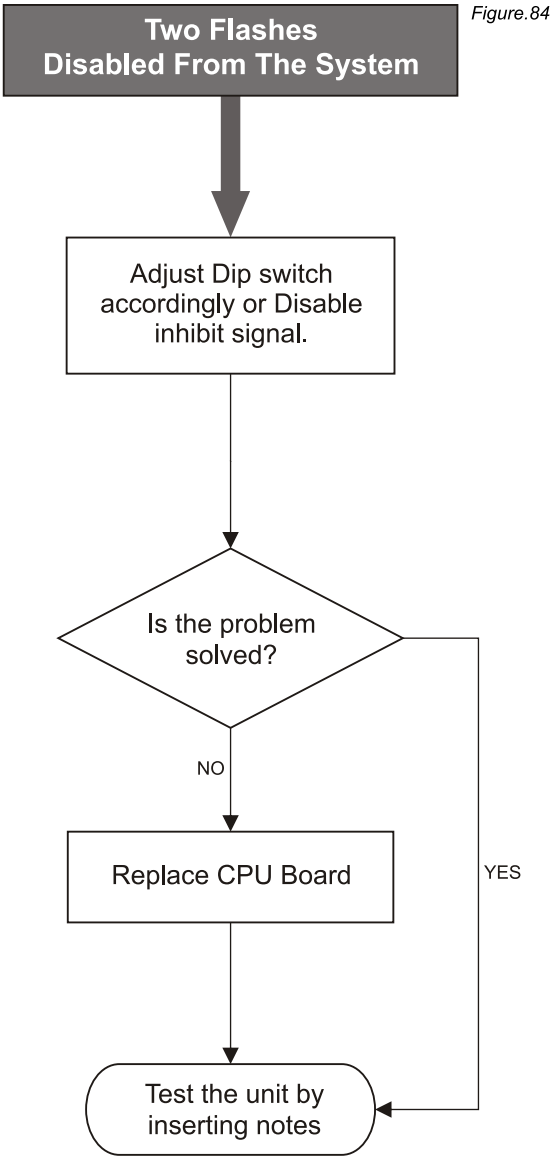


Figure.84

5-8-3. Three Flashes

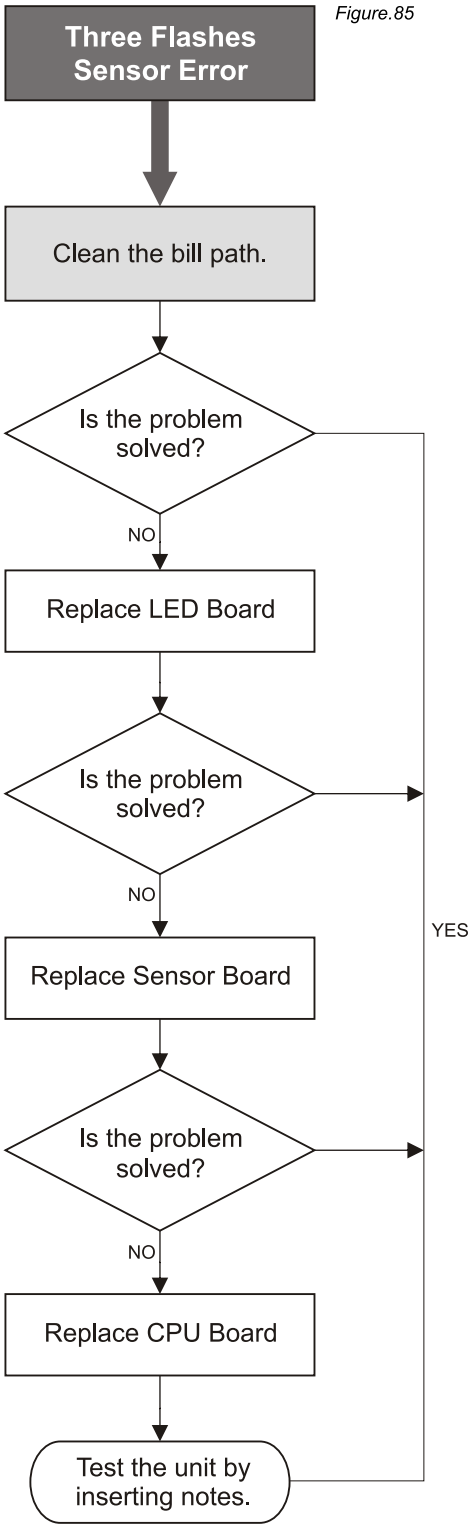
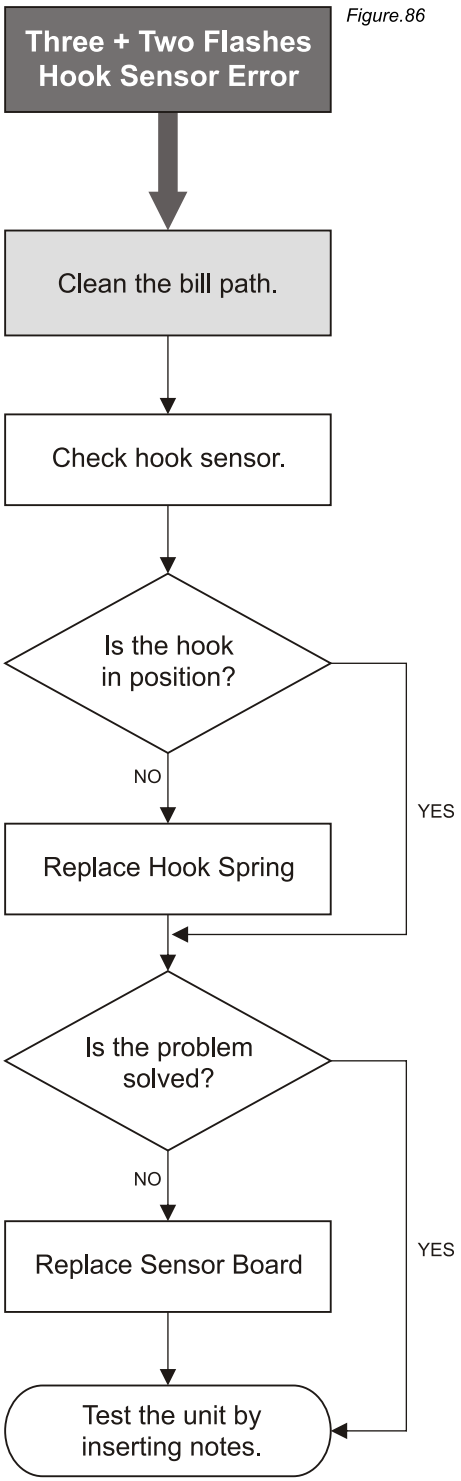


Figure.85

5-8-4. Three+Two Flashes

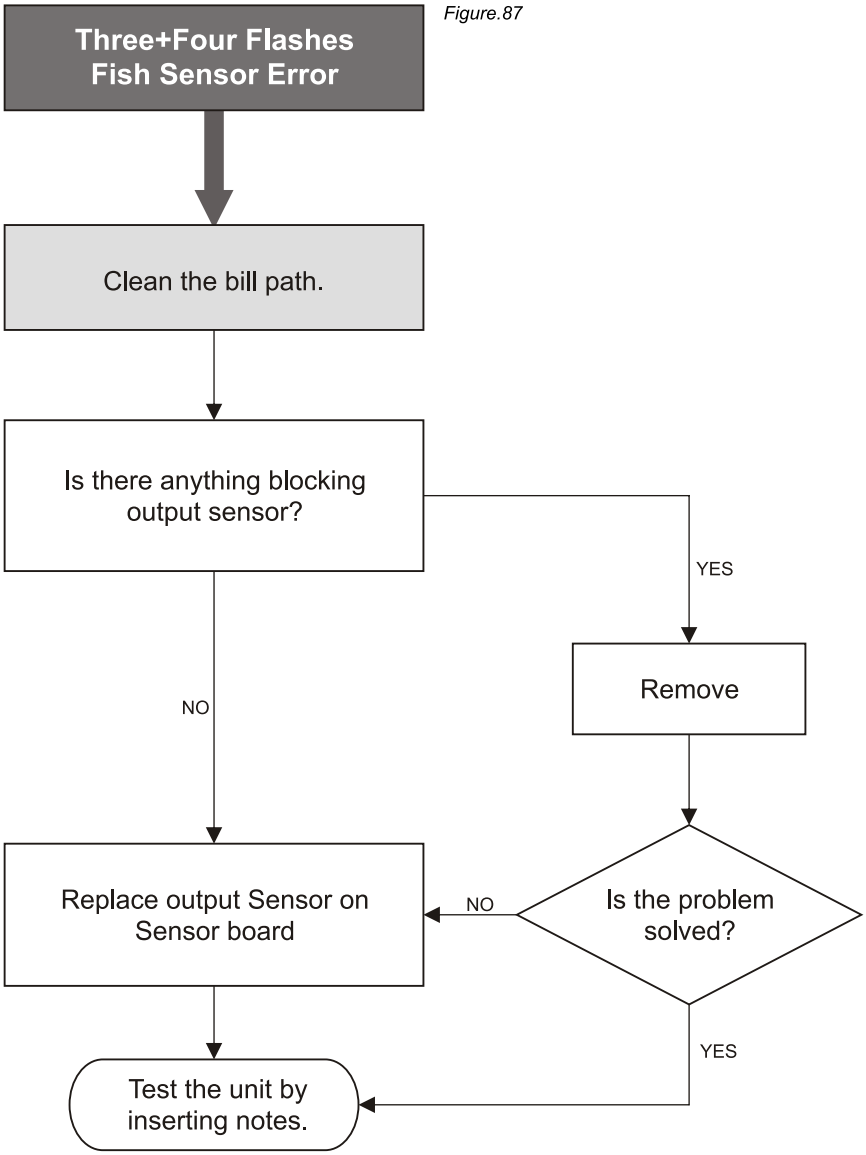
Figure.86



www.ictgroup.com.tw

5-8-5. Three+Four Flashes

Figure.87



5-8-6. Four Flashes

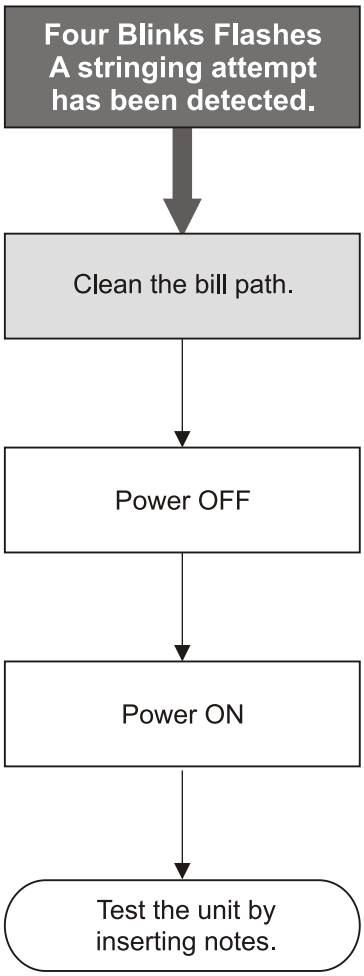


Figure.88

5-8-7. Five Flashes

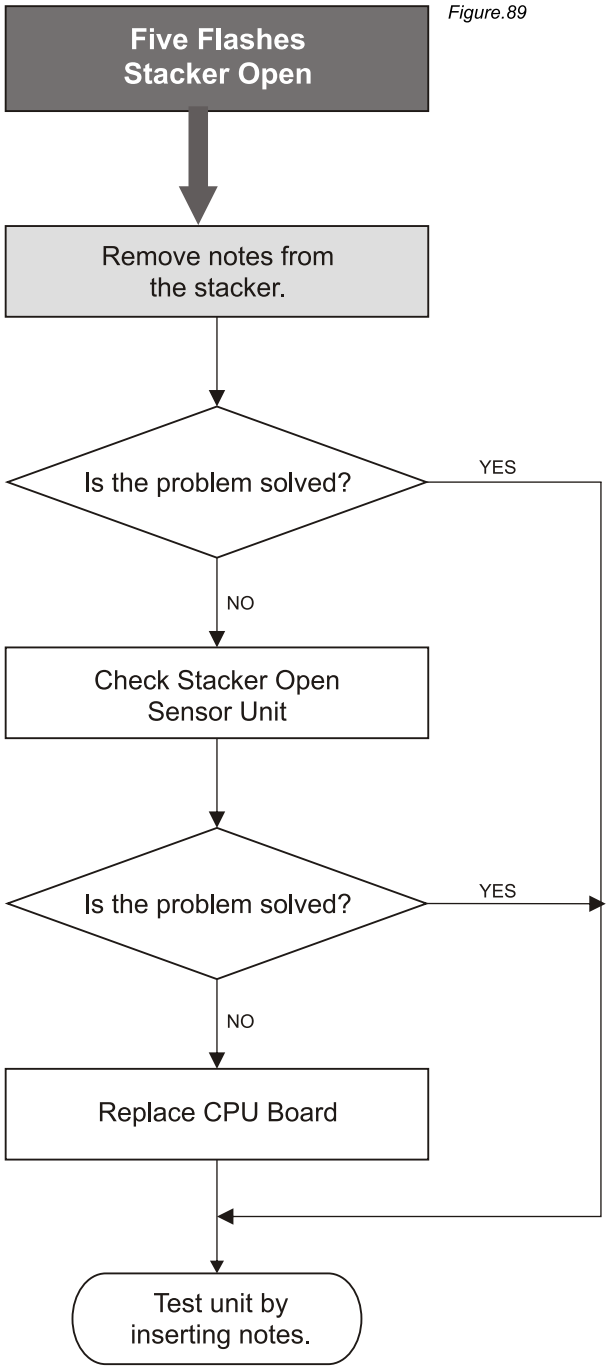


Figure.89

5-8-8. Six Flashes

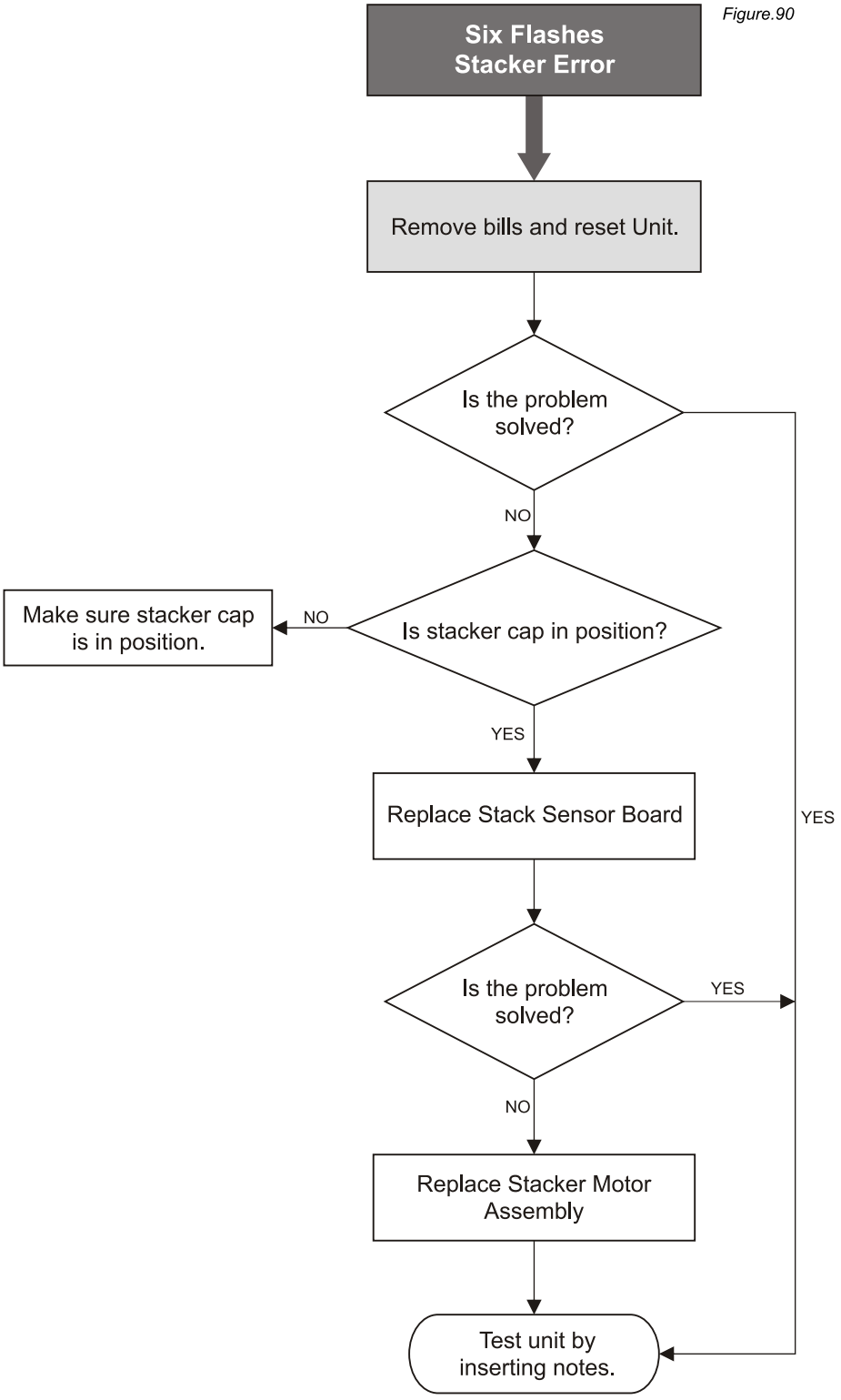


Figure.90

5-8-9. Seven Blinks

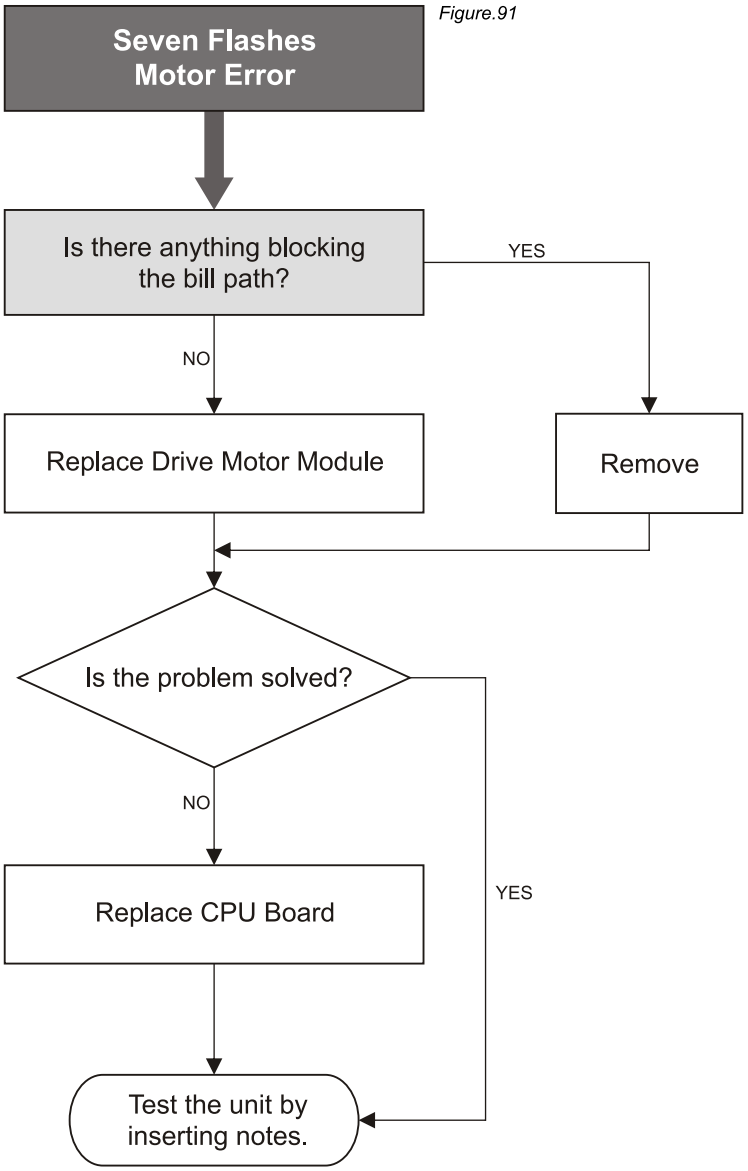


Figure.91

6. Parts and Assembly Views

6-1. Exploded Views

XBA Main Module

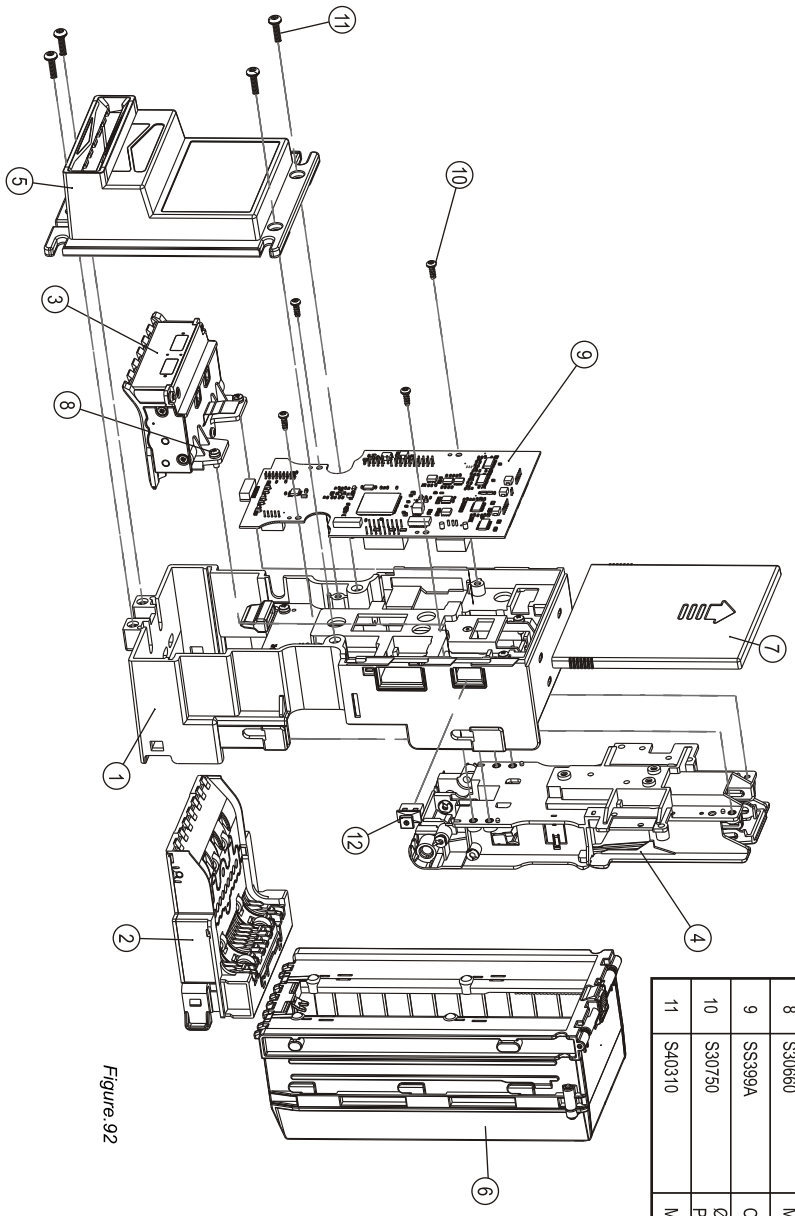


Figure.92

Order	Part number	Appellation	Quantity
1	3RMB-CAS18000	XBA Main Module	1
2	3RMB-UPX18001	XBA Upper Base Module	1
3	3RMB-DWN24001	XBA Lower Base Module	1
4	3RMB-CAS17000	Stack Module	1
5	3RMB-FAC40000	Standard Bezel Unit	1
6	3RMB-SBX85000	200P Bill Box Module	1
7	A41990-R	XBA CPU Door	1
8	S30660	M3x8 Screw with washer	6
9	SS399A	CPU Board	1
10	S30750	ØM3*8 Self-tapping Screw Black Zinc Plated TP2	4
11	S40310	M4x12 Screw	4

Table.2

Upper Base Module

Figure.93

Order	Part number	Appellation	Quantity
1	A4181000-R	Upper Base Unit	1
2	G11170	Spring	6
3	A21280-R	Lder Cover	2
4	A31460-R	Press Roller	6
5	A33700-R	Leler Mount	4
6	A41830-R	Burglarproof	1
7	A41840-R	Upper Base Upper Cover	1
8	A41860-R	LED light guide prism	2
9	A41820-R	Upper Base Waterproof cover	1
10	S30750	Ø3*8 Self-tapping Screw Black Zinc Plated TP2	7
11	S20060 D	2.3X6 Self-tapping Screw Black Zinc Plated TP2	2
12	Z51290-R	Upper Base Dust Eraser	1
13	Z51330-R	Prism Dust Eraser	2
14	C23990-R	Upper Base Baffle Board	1
15	G11290-R	Burglarproof Hook Drawspring	1
16	A42060-R	Leler Mount	2
17	Z51370-R	Upper Base Baffle Board Mylar	1
18	Z51380-R	Upper Base Waterproof Foam	1
19	SS399Hxx	Sensor Board	1

Table.3

Lower Base Module

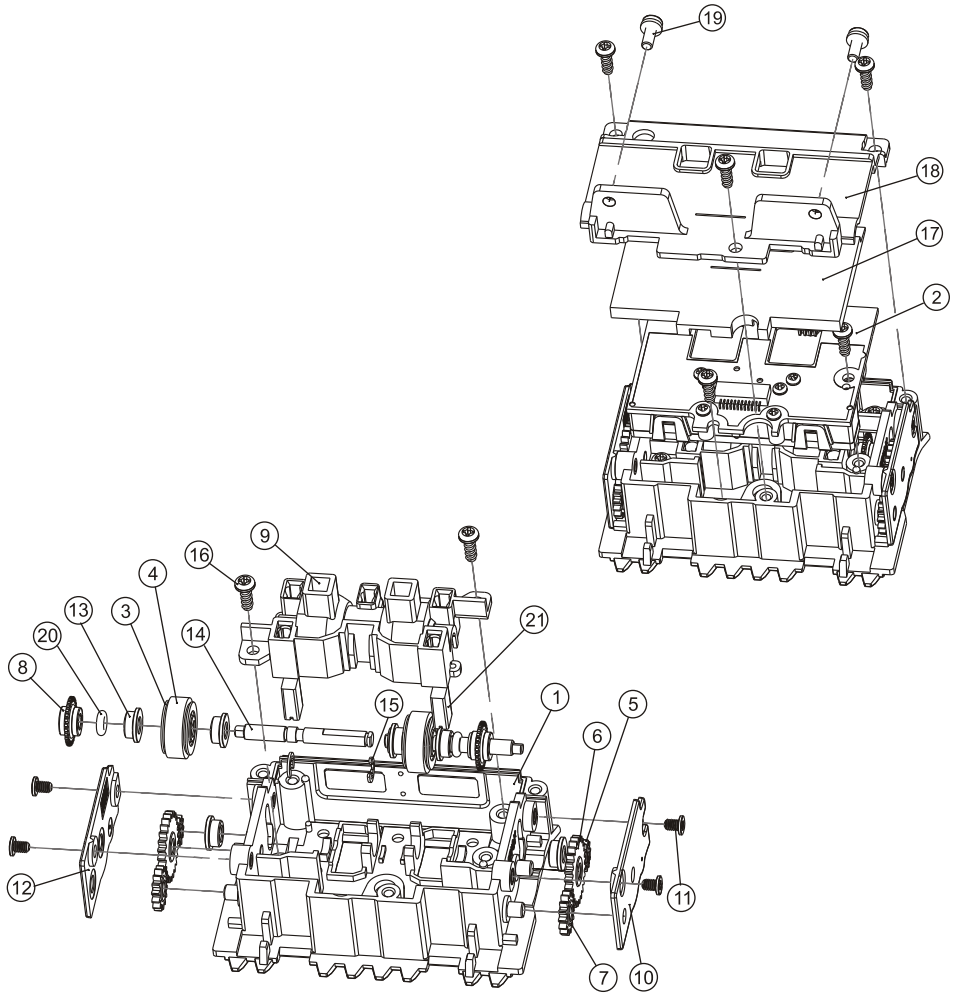


Figure.94

Order	Part number	Appellation	Quantity
1	A4189000-R	Lower base Module	1
2	SS399Gxx	LED Board	1
3	A42070-R	Roller D Type	2
4	Z51310-R	Lower Base Water Proof Rubber	2
5	F11250-R	D Type Gear(M0.7xT10xW2)	2
6	F10880-R	O Type Gear(M0.7x T25xW2)	2
7	F10940-R	O Type Gear(M0.7x T15xW2)	2
8	A41960-R	Optical Shutter (30P)	2
9	A41910-R	Lower Base Waterproof cover	1
10	A41940-R	Lower Base Gear Cover Plate (Right)	1
11	S31240	M3x4 I Type Screw Black Zinc Plated	4
12	A41950-R	Lower Base Gear Cover Plate (Left)	1
13	A35390-R	Plastic Axle Bush	6
14	B15130-R	Front Roller Axle	2
15	S10020	E3-E Type Ring	4
16	S30750	Ø3*8 Self-tapping Screw Black Zinc Plated TP2	8
17	Z51300-R	Lower Base Water Proof Rubber	1
18	A41900-R	Lower Base Cover	1
19	S30660	M3*8 Screw with washer	2
20	Z51320-R	O ring (P3)	2
21	A41970-R	Waterproof cover light guide	2

Table.4

Stack Module

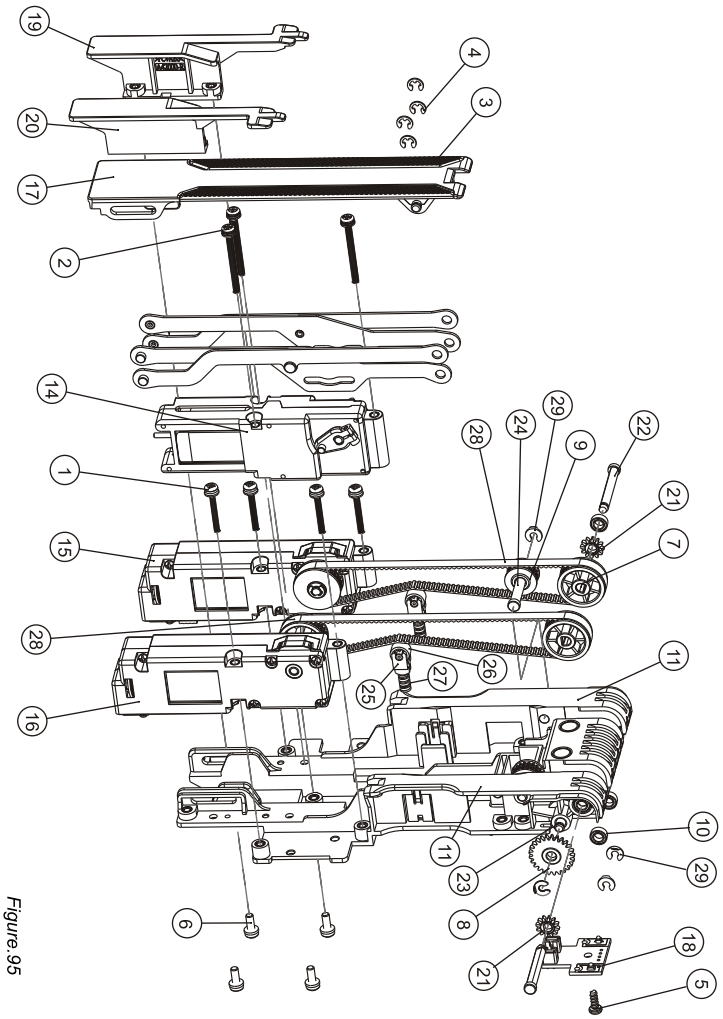


Figure.95

Table.5

Order	Part number	Appellation	Quantity
1	S31430	M3x20 Round Head Screw with washer	4
2	S31700	M3x30 Round Head Screw with washer	3
3	Z50530-R	Anti-skid Rubber	2
4	S10020	E3-E Type Ring	4
5	S30750	Ø3*8 Self-tapping Screw Black Zinc Plated TP2	1
6	S30660	M3x8 Screw with washer	4
7	A20740-R	Belt Roller T30 Type D	2
8	F10880-R	O Type Gear(M0.7x T25xW2)	2
9	A29850-R	Belt Roller T20 Type O	2
10	J11140-R	Bearings-740ZZ(D7Xd4Xt2.5)	4
11	A4198000-R	Bill Stacking Structure Pedestal	1
12	C2397000-R	Right Scissors Unit	1
13	C2398000-R	Left Scissors Unit	1
14	3RMB-MOT21000	Stacker Motor	1
15	3RMB-MOT20000	Bill Sending Motor Set (Right)	1
16	3RMB-MOT22000	Bill Sending Motor Set (Left)	1
17	A42020-R	Stacker Board	1
18	SS399Fxx	Cash Box Sensor Board	1
19	A42000-R	Block structure Rails R	1
20	A42010-R	Block structure Rails L	1
21	F12020-R	Spur Gears(M0.7X12T-D type)	2
22	B15160-R	Belt Axle Type D (30)	2
23	B15140-R	Belt Axle Type D (25T)	2
24	B15150-R	Belt Axle (20T)	2
25	A42050-R	Leier Mount	2
26	A42040-R	Press Roller	2
27	G11170	Spring	2
28	E50460-R	Belt(140MXL-4.8W)	2
29	A42250-R	Plastic E3-E Type Ring(3mm)	6

Bill Box Module (200P)

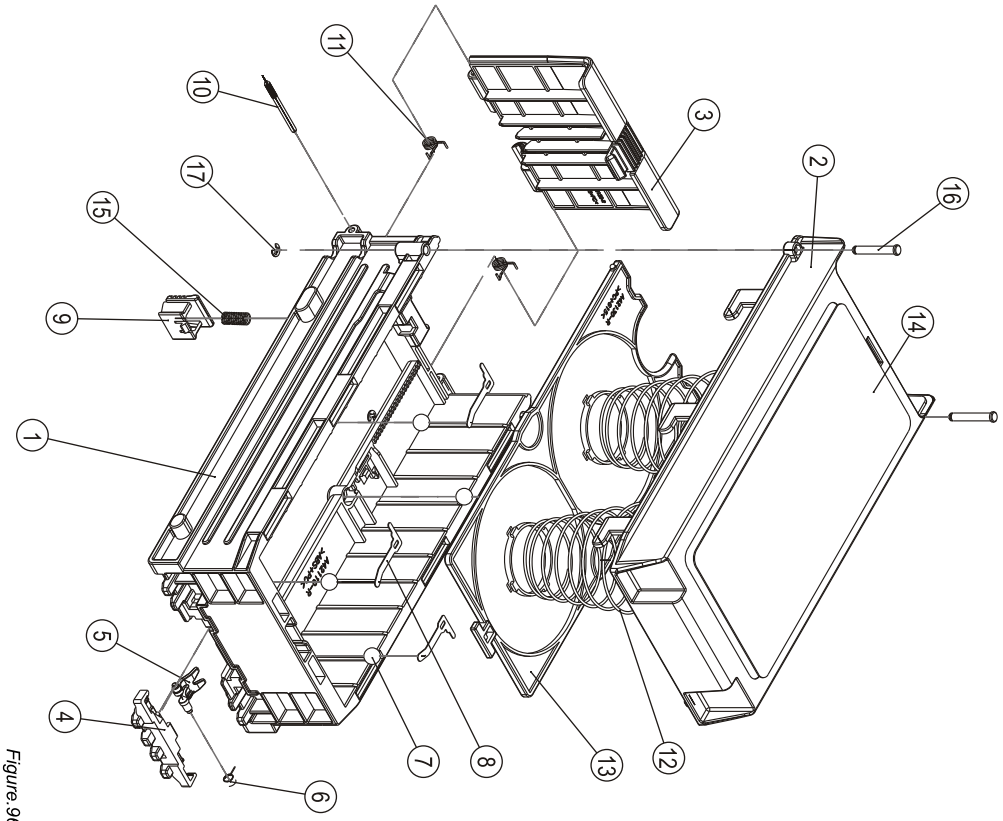


Figure.96

Order	Part number	Appellation	Quantity
1	A42110-R	Bottom Base Module of Bill Box	1
2	A42104-R	Bill Box Top Cover	1
3	A42124-R	Bill Box Door Plate	1
4	A42180-R	Positioned lens	1
5	A42170-R	Bill Pressed Board	1
6	G11580-R	Tensional Spring of Bill Pressed Board (0.3x3.0x10T)	1
7	J11160-R	1/4" Nylon Ball	4
8	C20280-R	Pick	4
9	A2202A-R	Slider	1
10	B10860-R	Door Link	2
11	G12040-R	Tensional Spring of Door Link	2
12	G11130-R	Vortex Spring	2
13	A42130-R	Bills Supporting Board	1
14		Bill Box Sticker 140 x 67 mm	1
15	G1038A-R	Spring	1
16	B15180-R	Door Link Spindle	2
17	S10010	E2-E Type Ring	2

Table.6

www.ictgroup.com.tw

Bill Box Module (400P)

Figure.97

Order	Part number	Appellation	Quantity
1	A42110-R	Bottom Base Module of Bill Box	1
2	A42114A-R	Bill Box Top Cover	1
3	A42180-R	Positioned lens	1
4	A42170-R	Bill Pressed Board	1
5	G11580-R	Tensional Spring of Bill Pressed Board (0.3x3.0x10T)	1
6	J11160-R	1/4" Nylon Ball	4
7	C20280-R	Pick	4
8	A2202A-R	Slider	1
9	B10860-R	Door Link	2
10	G12040-R	Tensional Spring of Door Link	2
11	A4216A-R	Bills Supporting Board	1
12	A4215A-R	Bill Box Door Plate	1
13	C23760-R	Scissors	2
14	G12710-R	Vortex Spring	1
15	B15060-R	Scissors Spindle	2
16	S10010	E2-E Type Ring	6
17		Bill Box Sticker 140 x 67 mm	1
18	B15190-R	Door Link Spindle	2
19	G1038A-R	Spring	1

Table.7

Bill Box Module (600P)

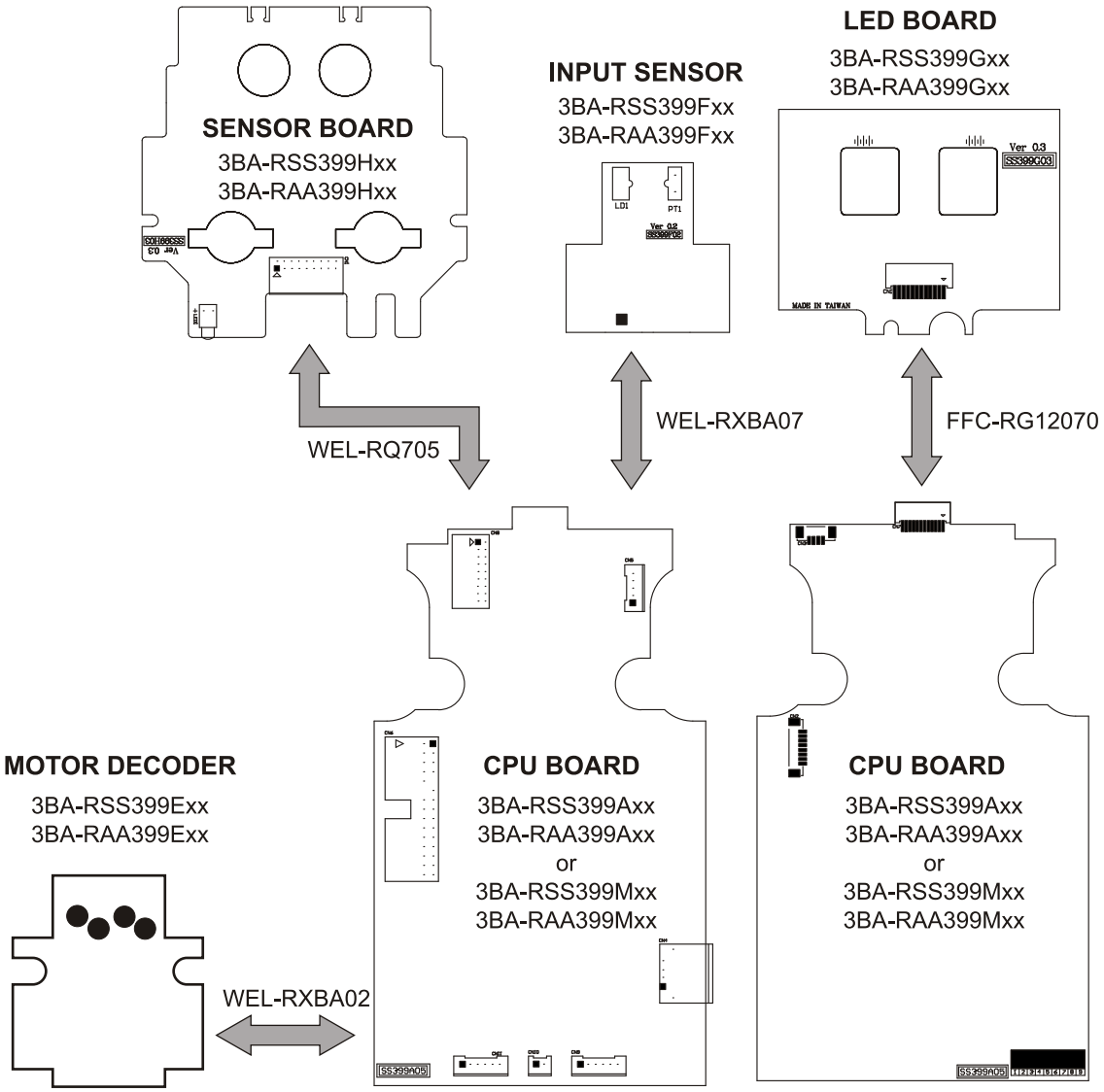
Figure.98

Order	Part number	Appellation	Quantity
1	A2202A-R	Slider	1
2	A42110-R	Bottom Base Module of Bill Box	1
3	A3270A-R	Bill Box Top Cover Button	2
4	G1038A-R	Spring	3
5	A42170-R	Bill Pressed Board	1
6	A42180-R	Positioned Iens	1
7	A43110-R	Bill Box Top Cover	1
8	A43120-R	Bill Box Door Plate	1
9	A43130-R	Bills Supporting Board	1
10	B10860-R	Door Link	2
11	B15200-R	Door Link Spindle	2
12	B15060-R	Scissors Spindle	2
13	C20280-R	Pick	4
14	C23760-R	Scissors	2
15	G11580-R	Tensional Spring of Bill Pressed Board (0.3x3.0x10T)	1
16	G12710-R	Vortex Spring	1
17	J11160-R	1/4" Nylon Ball	4
18	S10010	E2-E Type Ring	8
19		Bill Box Sticker 140 x 67 mm	1

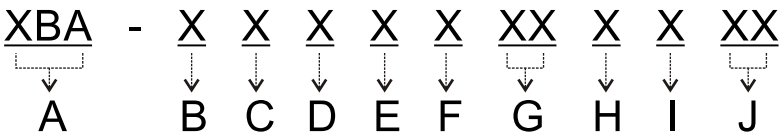
Table.8

6-2. Circuit Board Overviews

Figure.99



7. Model Number Configuration



A: Model
B: Voltage
C: Bill Box Capacity
D: Bezel + Metal Frame
E: Coating method
F: Interface
G: Currency
H: Denominations
I: Customer
J: Software Version

(A): Mode

Code	Model
XBA	XBA Series

Table.9

(B): Voltage

Code	Voltage
1	DC 12V
2	DC 24V
3	DC 34V
4	AC 24V / DC 34V

Table.10

(C): Bill Box Capacity

Code	Bill Box Capacity
2	200 Bills
4	400 Bills
6	600 Bills

Table.11

(D): Bezel + Metal Frame

Code	Bezel + Metal Frame
D	Standard Bezel (Two-Sided)
T	T-Bezel
M	Two-Sided (Metal)
F	Standard Bezel (Two-Sided) + Standard Metal Frame

Table.12

(E): Coating method

Code	Coating method
P	PVD
N	Non-PVD

Table.13

(F): Interface

Code	Interface
M	MDB
P	Pulse
R	ICT002
C	ccTalk
G	GPT Parallel
J	JPSTD
N	CCNet
I	RS232 A0

Table.14

(G): Currency : EU. Euro

(H): Denominations

Code	Denominations
1	1 Denomination
2	2 Denominations
3	3 Denominations
4	4 Denominations
5	5 Denominations
6	6 Denominations
7	7 Denominations

Table.15

(I): Customer

Code	Customer

Table.16

(J): Software Version : 00~99

ICT Taiwan
International Currency Technologies Corporation
Ji-Hong Building, No 24, Alley 38, Lane 91, Nei-hu Rd., Sec. 1, Taipei, Taiwan, R.O.C.
Tel: 886-2-2797-1238 · Fax: 886-2-2797-1634
sales@ictgroup.com.tw (For Sales) · rma@ictgroup.com.tw (For Customer Service)
Website: www.ictgroup.com.tw

www.ictgroup.com.tw

© 2013 International Currency Technologies Corporation
V. 2.0 Part Number: H6490A-R